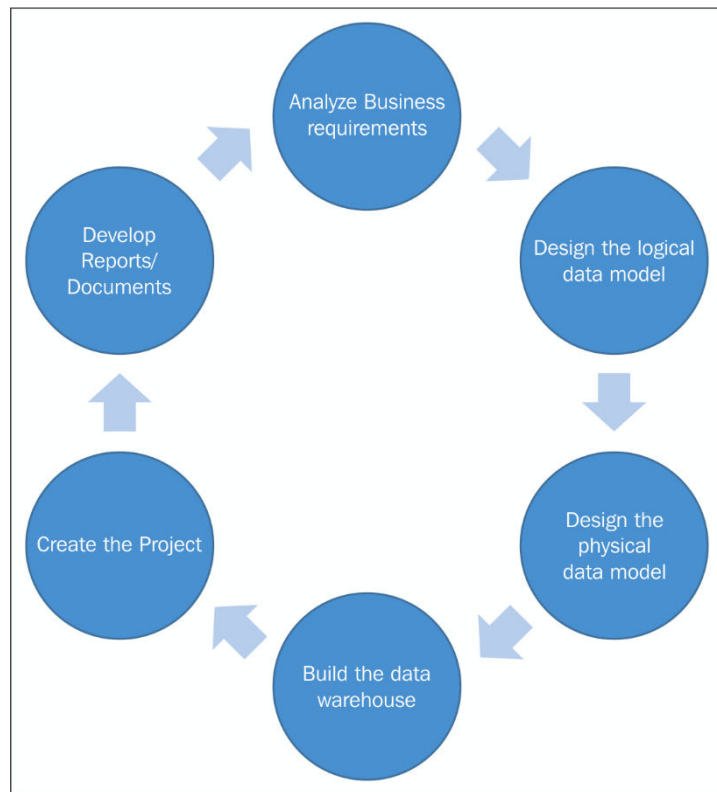
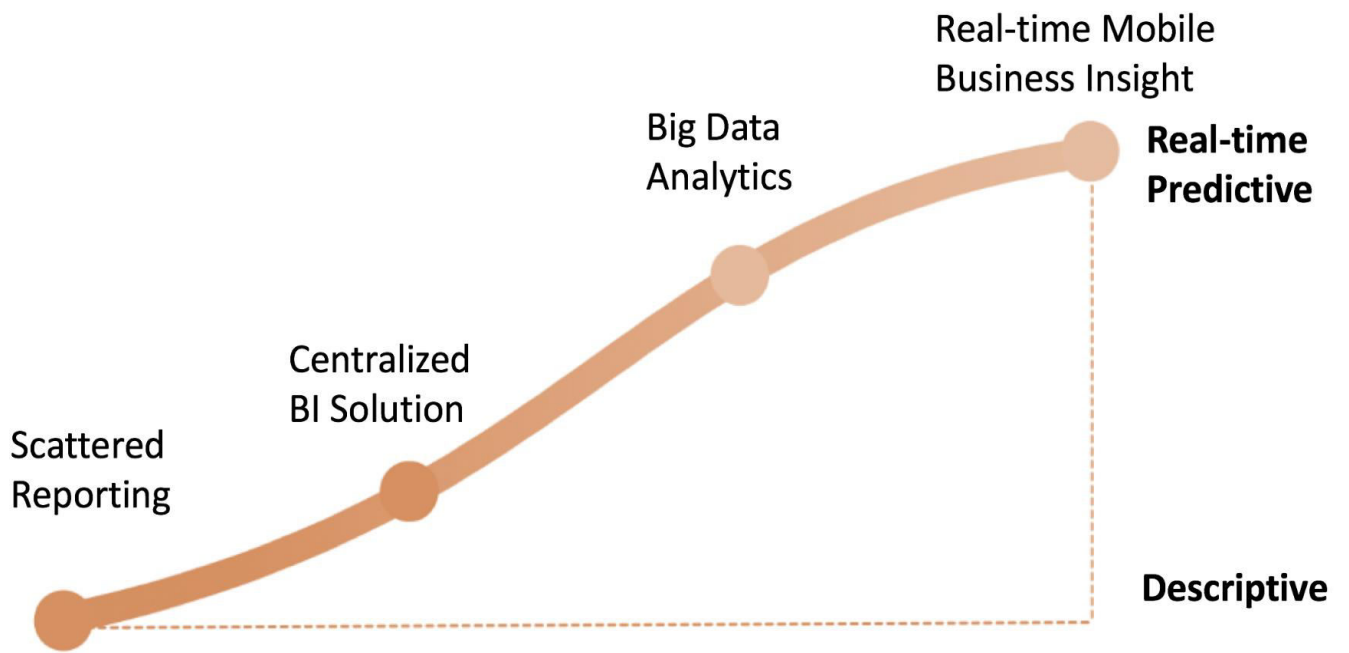
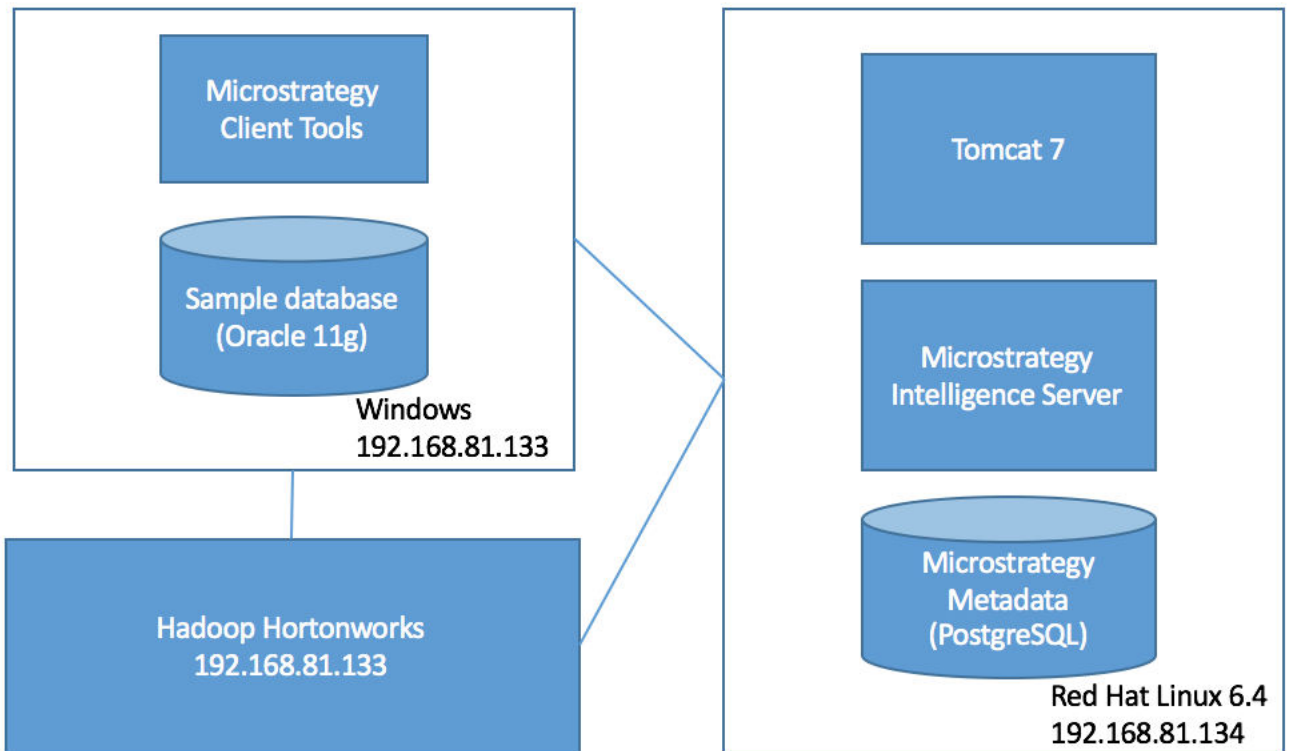
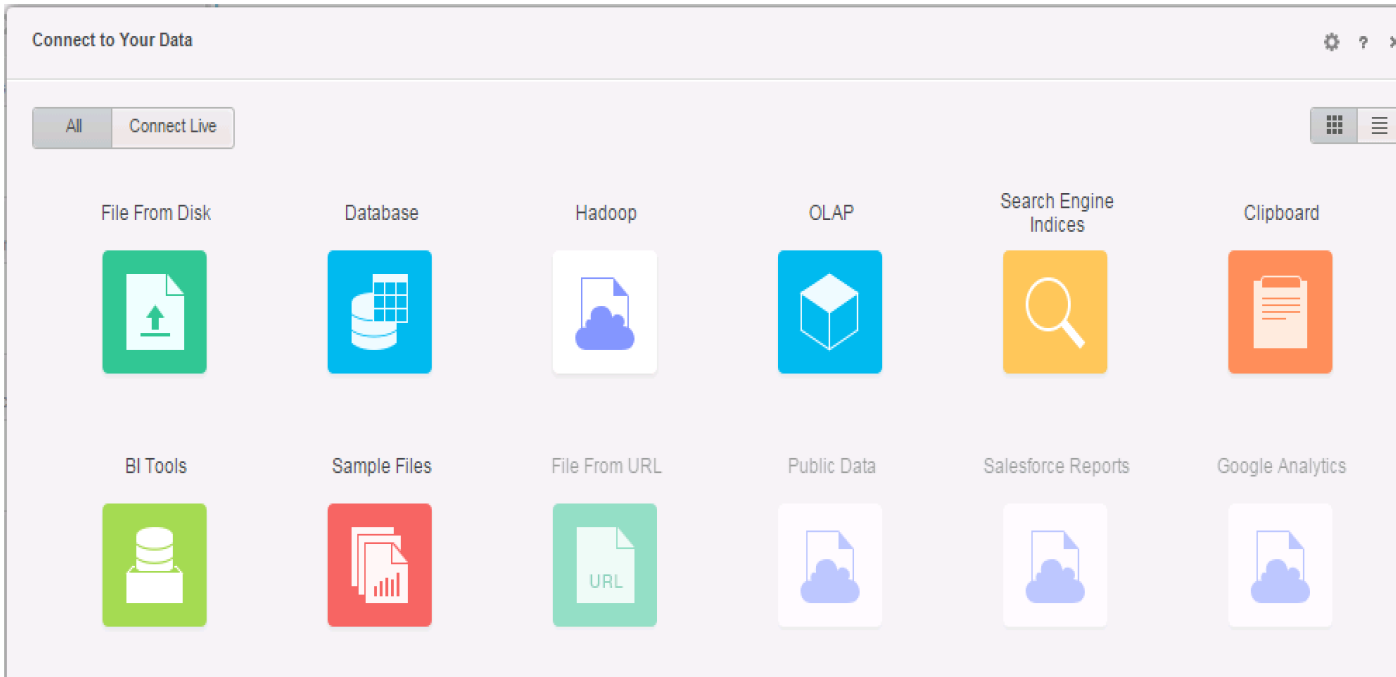


Chapter 1: Getting Started with MicroStrategy



Source: Gartner (February 2015)





```
net.ipv4.tcp_syncookies = 1

# Controls the default maximum size of a message queue
kernel.msgmnb = 65536

# Controls the maximum size of a message, in bytes
kernel.msgmax = 65536

# Controls the maximum shared segment size, in bytes
kernel.shmmax = 68719476736

# Controls the maximum number of shared memory segments, in pages
kernel.shmall = 4294967296
kernel.sem=250 32000 32 2048
```

Enter the following information to connect to PostgreSQL.

<u>D</u> ata Source Name	<input type="text" value="metadata"/>
Host <u>N</u> ame	<input type="text" value="localhost"/>
<u>P</u> ort Number	<input type="text" value="5432"/>
<u>D</u> atabase Name	<input type="text" value="mstrmd"/>
<u>U</u> ser Name	<input type="text" value="mstr"/>

Please select the Data Source name to use, to connect to the metadata repository.
To create another one, click New.

DSN:

New...

User Name:

Password:

SQL Preview

Advanced... <<

Table Prefix:

Script:

...

Virtual Network Editor

Name	Type	External Connection	Host Connection	DHCP	Subnet Address
VMnet0	Bridged	Auto-bridging	-	-	-
VMnet1	Host-only	-	Connected	Enabled	192.168.81.0
VMnet2	Custom	-	-	-	192.168.206.0
VMnet3	Custom	-	-	-	192.168.226.0
VMnet4	Custom	-	-	-	192.168.111.0
VMnet5	Custom	-	-	-	192.168.80.0
VMnet6	Custom	-	-	-	192.168.203.0
VMnet7	Custom	-	-	-	192.168.43.0
VMnet8	NAT	NAT	Connected	-	192.168.184.0

VMnet Information

Bridged (connect VMs directly to the external network)
 Bridged to:

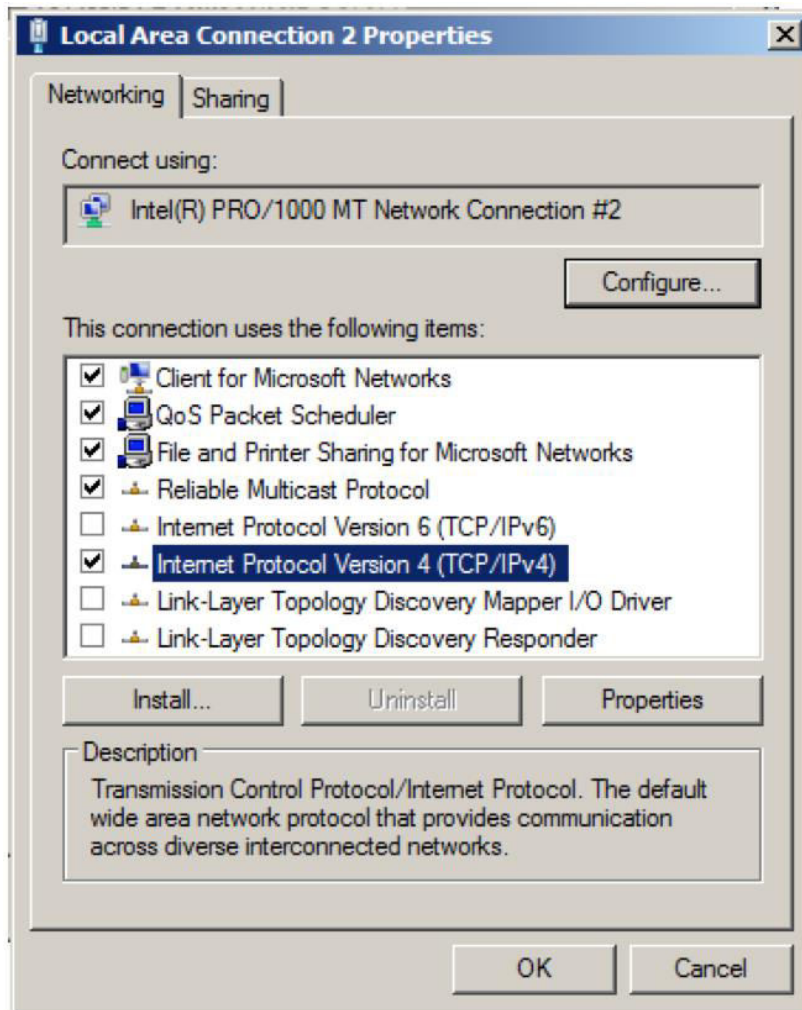
NAT (shared host's IP address with VMs)

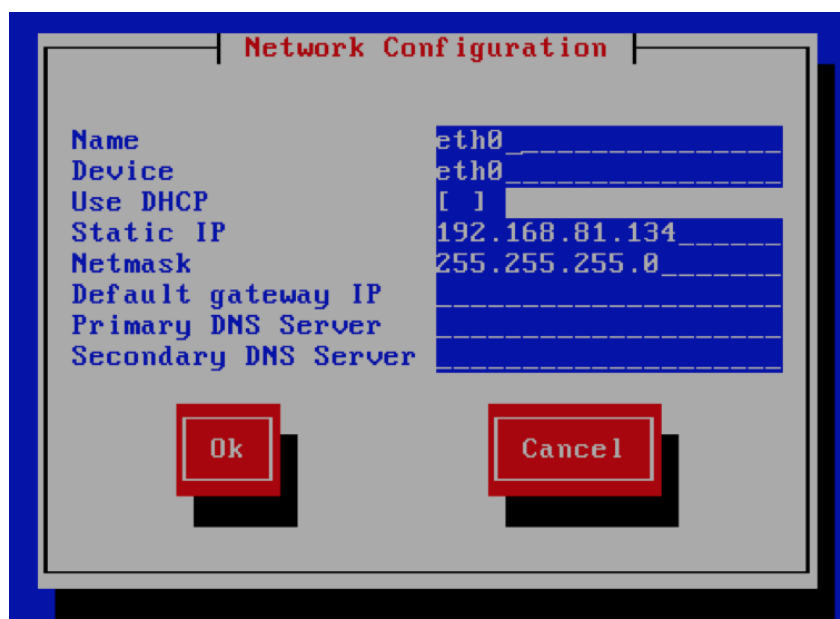
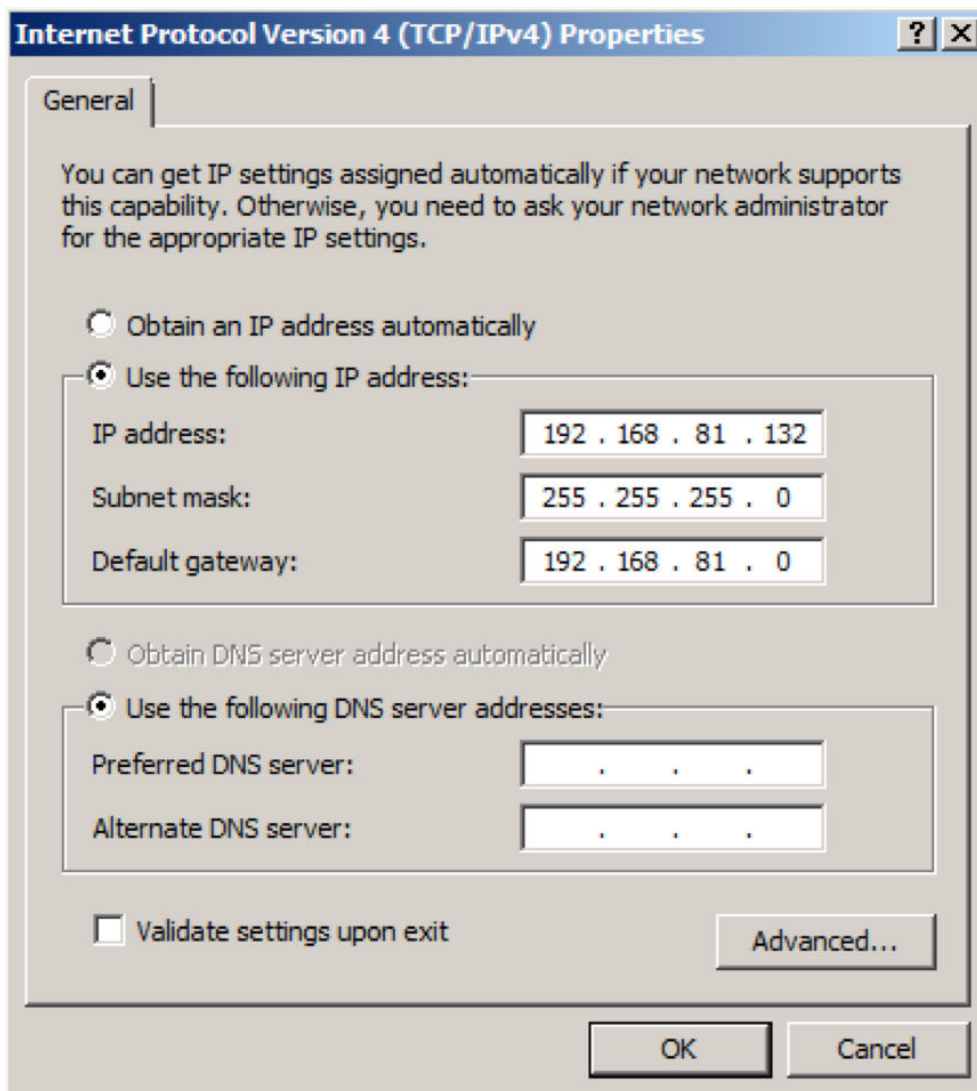
Host-only (connect VMs internally in a private network)

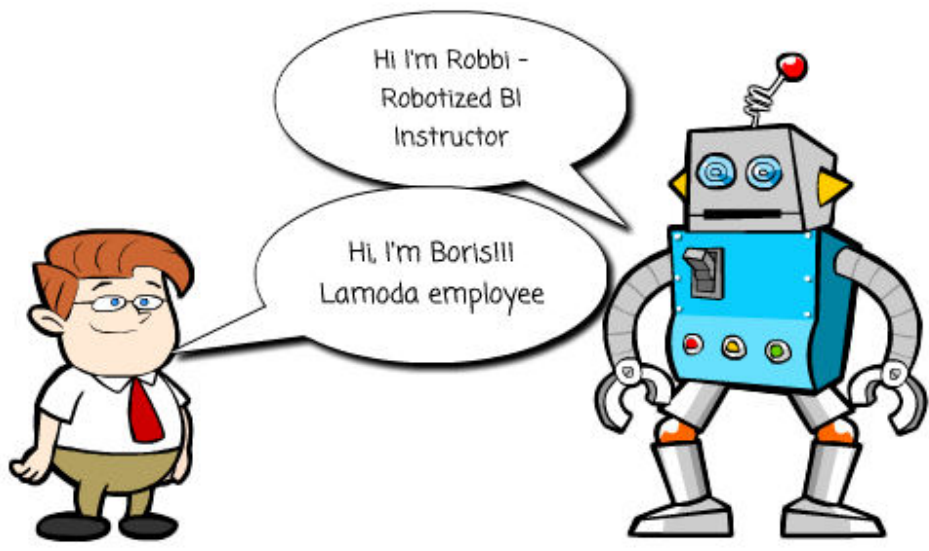
Connect a host virtual adapter to this network
 Host virtual adapter name: VMware Network Adapter VMnet1

Use local DHCP service to distribute IP address to VMs

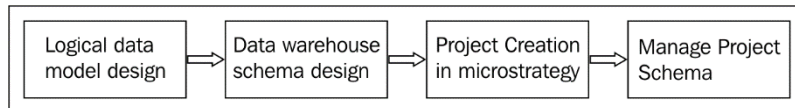
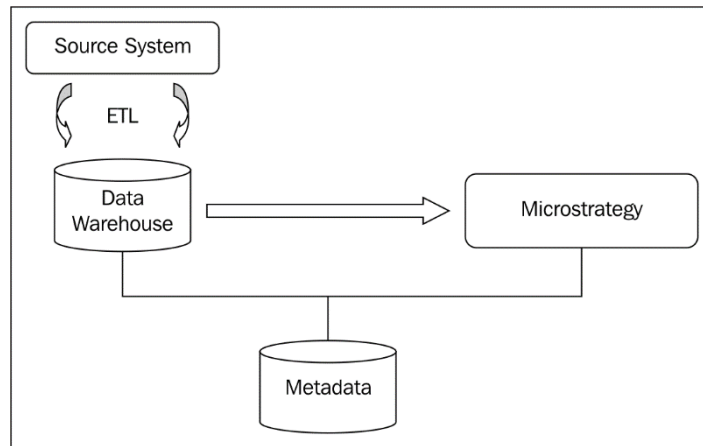
Subnet IP: Subnet mask:



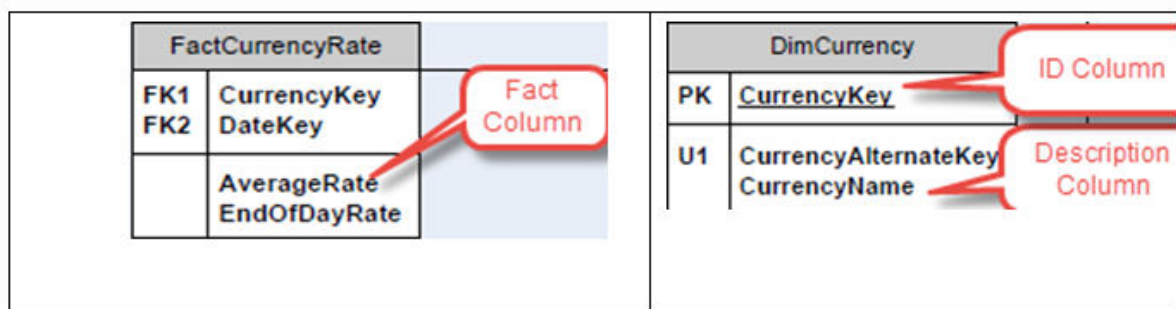


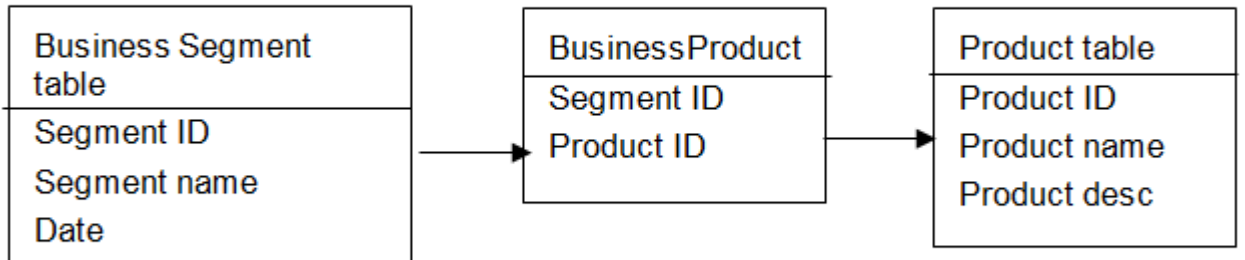


Chapter 2: Setting Up an Analytics Semantic Layer and Public Objects



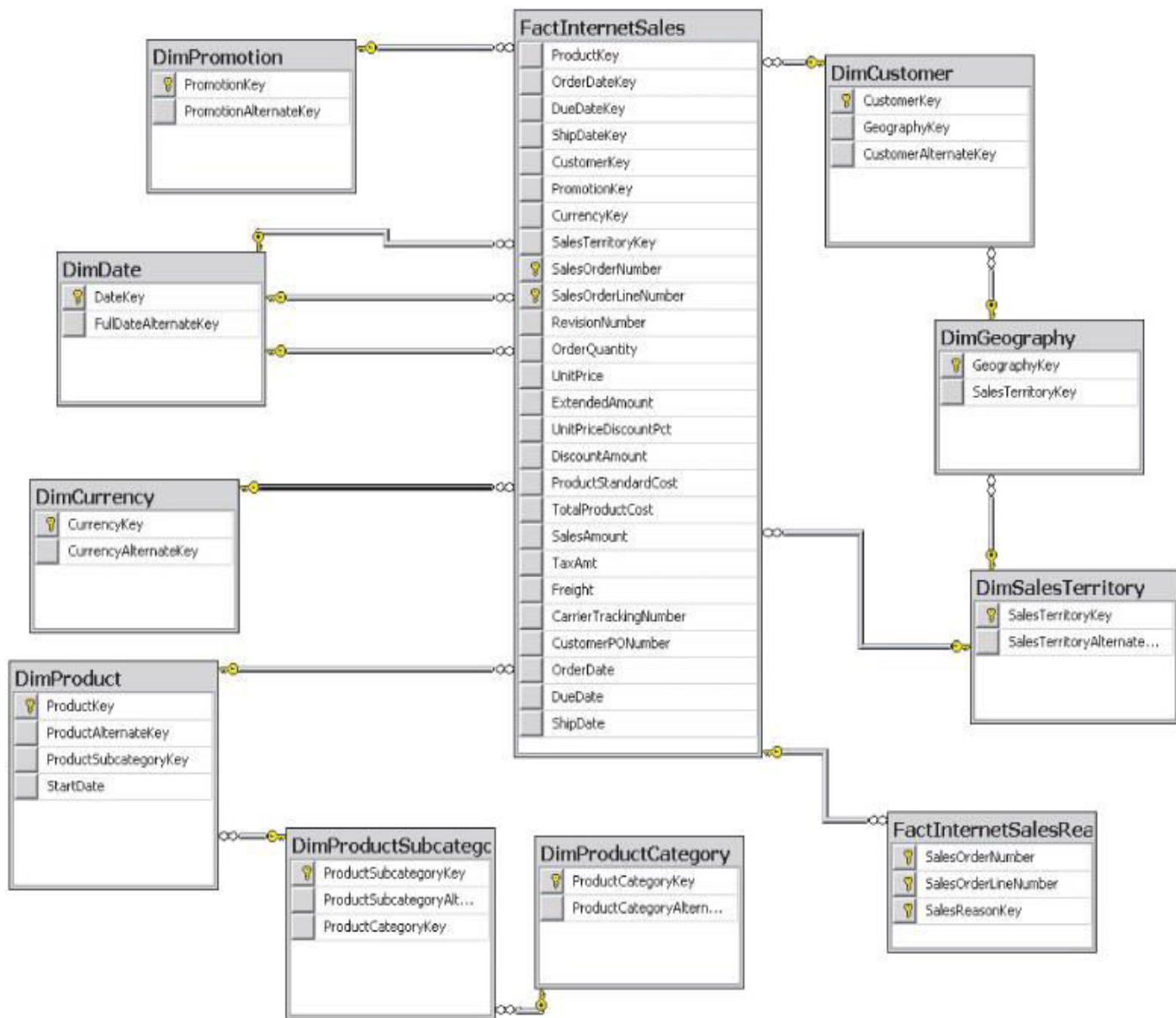
	A	B	C	D	E	F	G
1	Facts Dimensions	Country	Product	Company	Department	Employee	Date
2	OrderQuantity	X	X				X
3	SalesAmount	X	X				X
4	SalesAmountQuota	X				X	X
5	Revenue	X		X	X		X
6	Totalcalls					X	X
7	Current year MTD sale	X	X				X
8	Prior year MTD sale	X	X				X
9							





Sales Fact
Item_ID
Item description
Items sold
Sales amount

Sales Fact
Category_ID
Category description
Total sales
Sales amount



Driver Details

Enter the following information to connect to the Oracle Database:

Data Source Name

Standard Connection TNS Names Connection

Host Name	<input type="text" value="192.168.81.132"/>
Port Number	<input type="text" value="1521"/>
SID	<input type="text" value="orcl"/>
Service Name	<input type="text"/>
Alternate Servers	<input type="text"/>

Enter the Oracle System Identifier for the instance of Oracle running on the server. The default SID is ORCL in most cases.

New Project [X]

What name do you want to use to refer to the project?
MasteringBI

What description do you want to enter for the project?


Which is the default Document directory?
 ...

Enable the guest user account for this project.
 Enable Change Journal for this project
 Enable Quick Search for this project

Project Languages
Please choose the languages that should be available for this project. These languages will be available for object names, descriptions and attribute forms.

Default: Languages...

OK Cancel Help

> Create project 

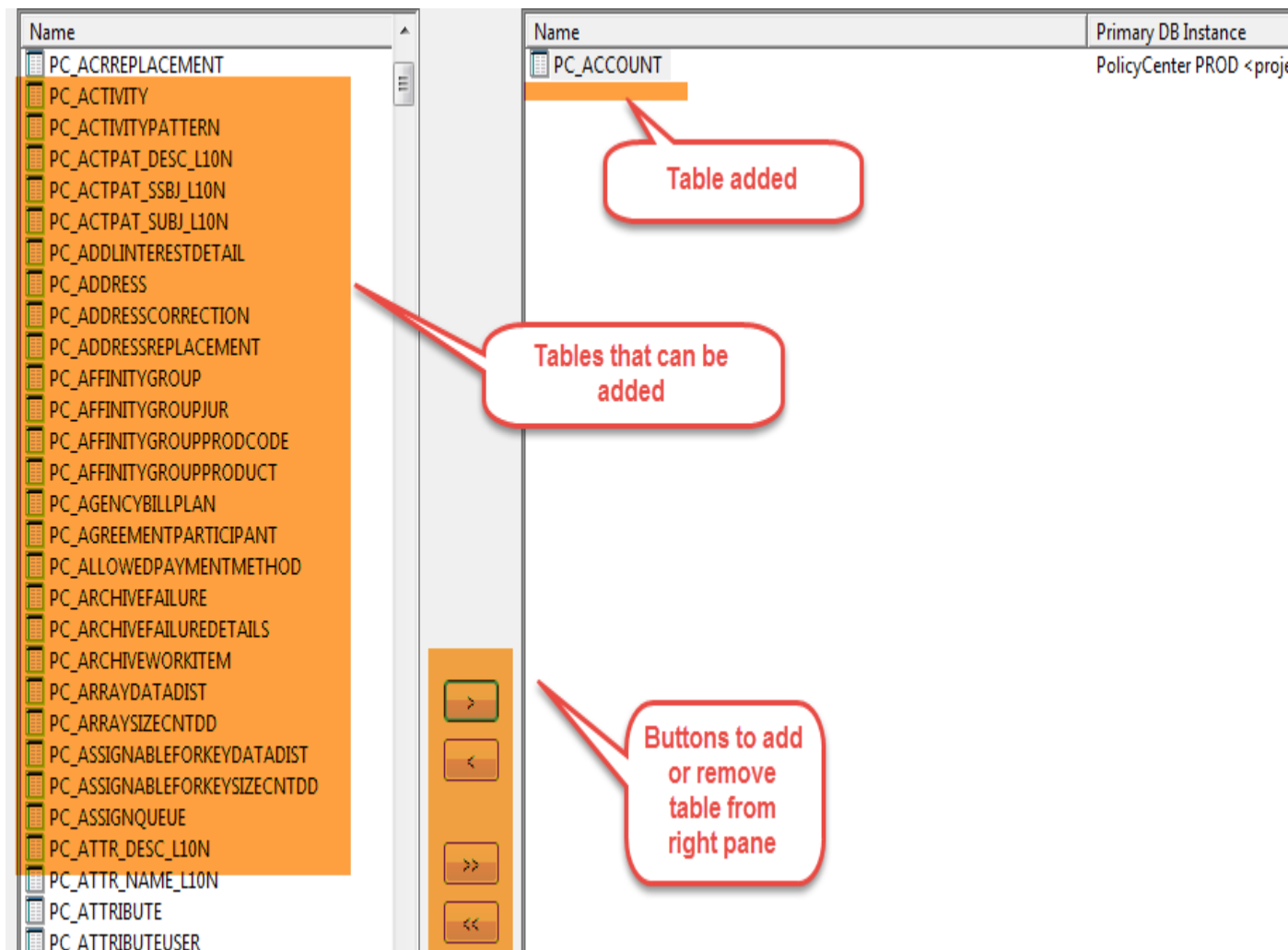
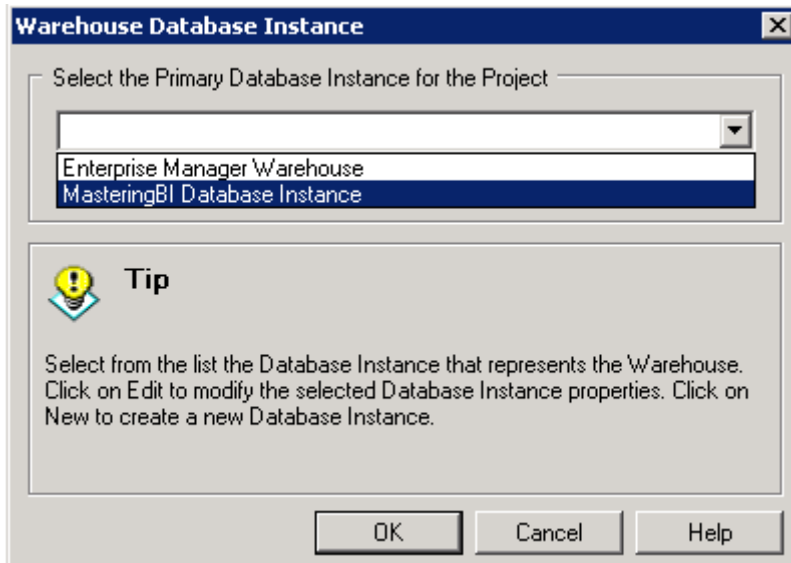
> Select tables from the Warehouse Catalog

> Create facts

> Create attributes

> Architect...

OK Cancel Help



>	Create project	✓
>	Select tables from the Warehouse Catalog	✓
>	Create facts	
>	Create attributes	
>	Architect...	
<input type="button" value="OK"/> <input type="button" value="Cancel"/> <input type="button" value="Help"/>		

Fact Creation Wizard - Column Selection

Please select the column(s) that you want to use to create the facts.
Select a fact to rename it.

Available columns:		Facts:	
Column name	Column type	Fact name	Column name
ROUNDINGMODE	Numeric (# Amount	AMOUNT
S_EN_CA	Numeric (# Score	SCORE
S_EN_US	Numeric (
S_FR	Numeric (
S_FR_CA	Numeric (
SCHEDULEAUTONUM...	Numeric (
SECONDDAYOFMONTH	Numeric (
SECTION	Numeric (
SECURITYTYPE	Numeric (
SECURITYZONEID	Numeric (
SEGMENT	Numeric (
SENDORDER	Numeric (

Attribute Creation Wizard - Lookup Table Selection

Select the (lookup) table that will contain the description for each attribute below



Attributes:

Attribute name	Lookup Table Name
Customerkey	DIMCUSTOMER
Daynumberofyear	DIMDATE
Geographykey	DIMCUSTOMER

Help Cancel < Back Next > Finish

Attribute Creation Wizard - Relationship Definition

Define the children for each attribute on the left side list by clicking "Add"



Attributes:

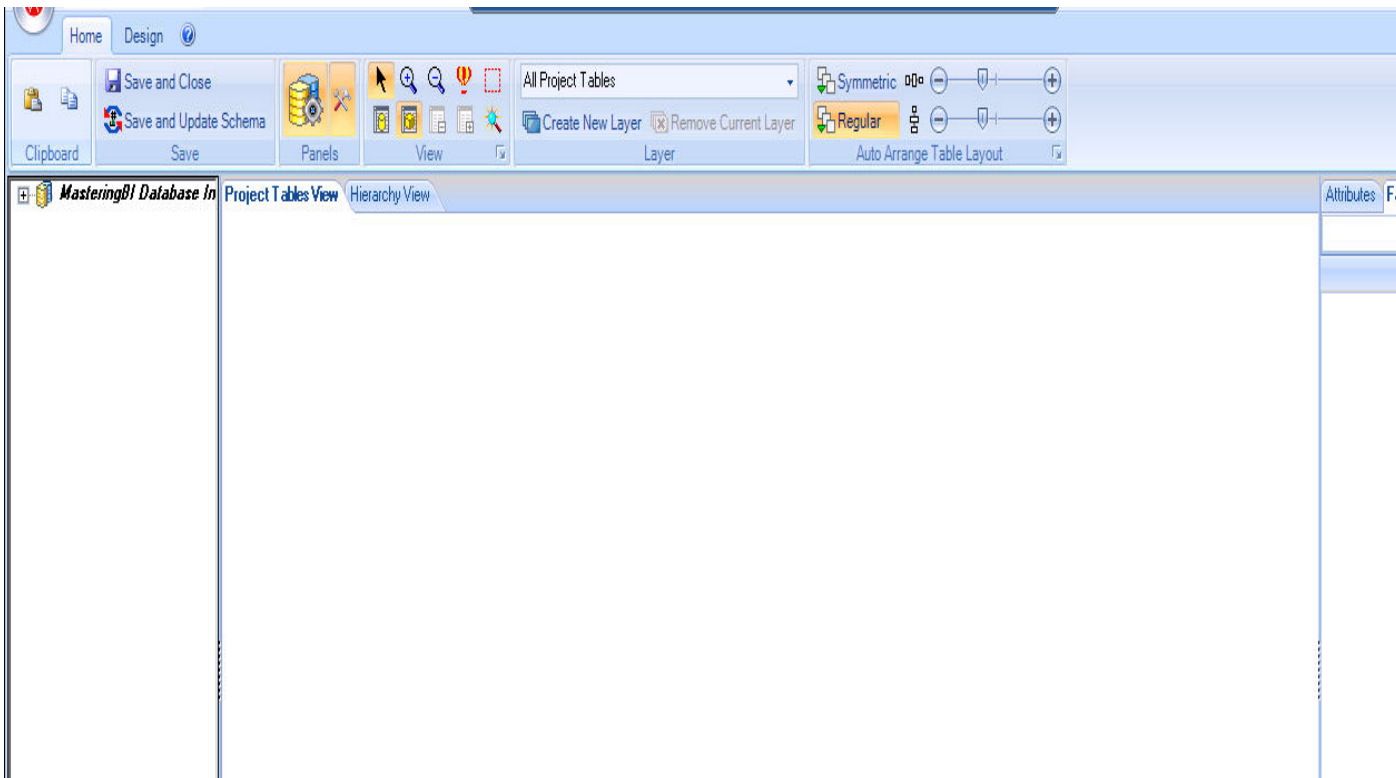
Attribute name
<input checked="" type="checkbox"/> Customerkey
<input checked="" type="checkbox"/> Daynumberofyear
<input checked="" type="checkbox"/> Geographykey

Children of: Geographykey

Attribute name	Relationship type
Customerkey	One to Many
	One to One
	One to Many
	Many to Many

Add... Remove

Help Cancel < Back Next > Finish



- [-] Schema Objects
 - [+] Attributes
 - [+] Facts
 - [+] Functions and Operators
 - [+] Hierarchies
 - [+] Partition Mappings
 - [+] Tables
 - [+] Transformations

◆	Broker Name	Attribute
◆	Policy Number	Attribute
📄	Total Premium	Metric
📄	Total Premium level product	Metric

View filter

New Clear Apply

Report Filter: 'Local Filter'

▶ Double-click here to add a qualification, or drag an object from the object browser

Report View: 'Local Template'

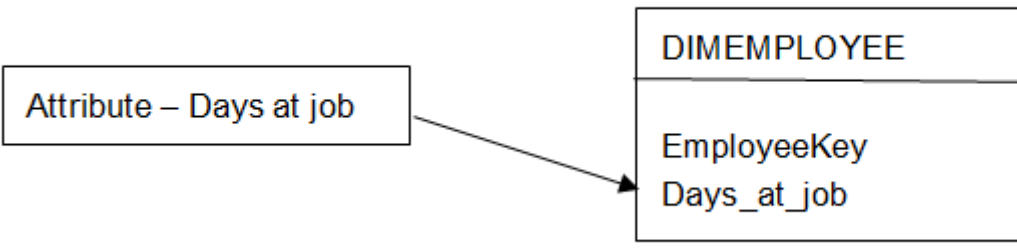
		Metrics	Total Premium
Broker Name	Policy Number		

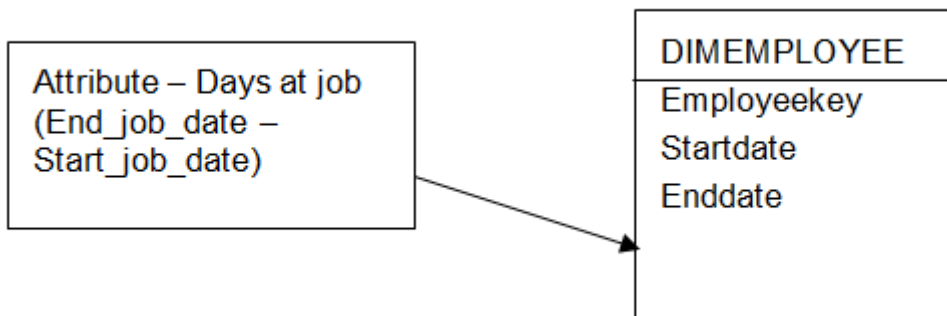
```

SQL Statements:
create table ZZMD00 nologging as
select sum(a11.TOTAL_PREMIUM_AMT) WJXBFS1
from P_DW_DW_ADMIN.POLICY_INFORCE_FACT a11

create table ZZMD01 nologging as
select a13.POLICY_NUM POLICY_NUM,
a12.BROKER_NAME BROKER_NAME,
sum(a11.TOTAL_PREMIUM_AMT) WJXBFS1
from P_DW_DW_ADMIN.POLICY_INFORCE_FACT a11
join P_DW_DW_ADMIN.BROKER_DIM a12
on (a11.BROKER_KEY = a12.BROKER_KEY)
join P_DW_DW_ADMIN.POLICY_DIM a13
on (a11.POLICY_KEY = a13.POLICY_KEY)
group by a13.POLICY_NUM,
a12.BROKER_NAME

```





Currency Name - Attribute Editor

File Edit Tools Window Help

Save and Close

Forms Children Parents Display

Attribute forms:

Form name	Form category	Format type	Form description
ID	ID	Text	

New...
Delete
Modify...

Represents attribute Form

Form expressions:

Expression	Mapping method
Σ CURRENCYNAME	Automatic

Source tables:

Table name
DIMCURRENCY

It is the columns of database that user is mapping to

The Select clause of SQL is based on this section

Lookup table

The from of SQL is based on this section

Broker Name - Attribute Editor

File Edit Tools Window Help

Save and Close

Forms Children Parents Display

Attribute children:

Attribute name	Relationship type	Relationship table
Broker Key	One to Many	BROKER_DIM

Broker name attribute children

Broker Name - Attribute Editor

File Edit Tools Window Help

Save and Close

Forms Children Parents Display

Attribute parents:

Attribute name	Relationship type	Relationship table
Broker Number	Many to One	BROKER_DIM

Broker name attribute parent

AQ\$_SCHEDULES

OID : VarBin(16)
START_TIME : TimeStamp
DURATION : VarChar(8)
NEXT_TIME : VarChar(128)
LATENCY : VarChar(8)
LAST_TIME : TimeStamp
JOBNO : Numeric(38,0)
DESTINATION (DESTINAT

- Create Attribute
- Create Fact
- Create Table Alias
- Delete
- Remove From Layer
- Rename
- Recognize
- Collapse Table
- Zoom To Table
- Calculate Row Count
- Show Sample Data
- Update Structure
- Properties

name () - Create New Form Expression

Source table:

Available columns:

- DESTINATION
- DURATION
- JOBNO
- LAST_TIME
- LATENCY
- NEXT_TIME
- OID
- START_TIME

Form expression

() + - * / f(x) Clear Validate

[DESTINATION]

Column -VarChar (128): DESTINATION ✓

Mapping method

Automatic
 Manual

Description:
 Automatically select the source tables that will use the expression.

OK Cancel Help

New Attribute (ID) - Create New Form Expression

Source table:

Available columns:

Name
ACCOUNTCODEALTERNATEKEY
ACCOUNTDESCRIPTION
ACCOUNTKEY
ACCOUNTTYPE
CUSTOMMEMBEROPTIONS
CUSTOMMEMBERS
OPERATOR
PARENTACCOUNTCODEALTERNATEKEY
PARENTACCOUNTKEY
VALUETYPE

Form expression

() + - * / f(x) Clear Validate

Enter expression here

Empty expression

Mapping method

Automatic
 Manual

Description:
 Automatically select the source tables that will use the expression.

OK Cancel Help

Form definition

Expressions:

Expression	Mapping method
2. ACCOUNTTYPE	Automatic

Source tables:

Table name
<input checked="" type="checkbox"/> DIMACCOUNT

Form general information

Name:

Description:

Supports multiple languages

Form category

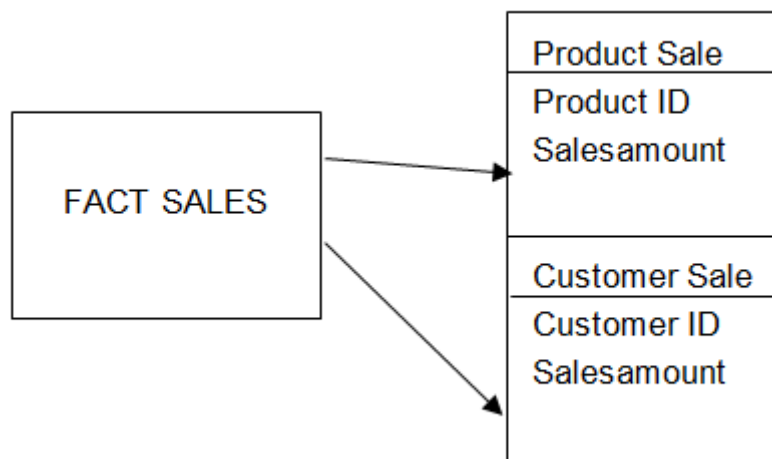
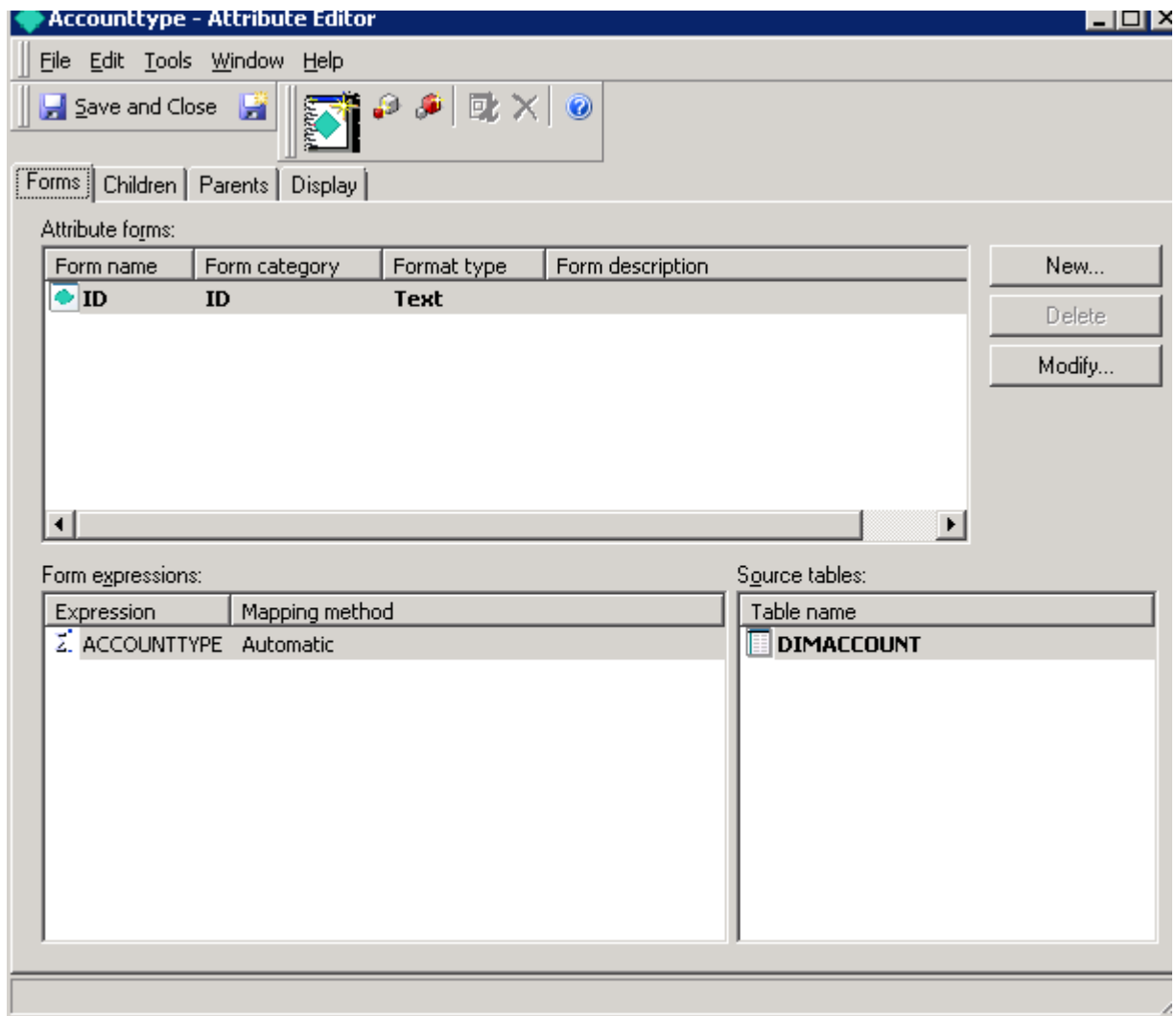
Category used:

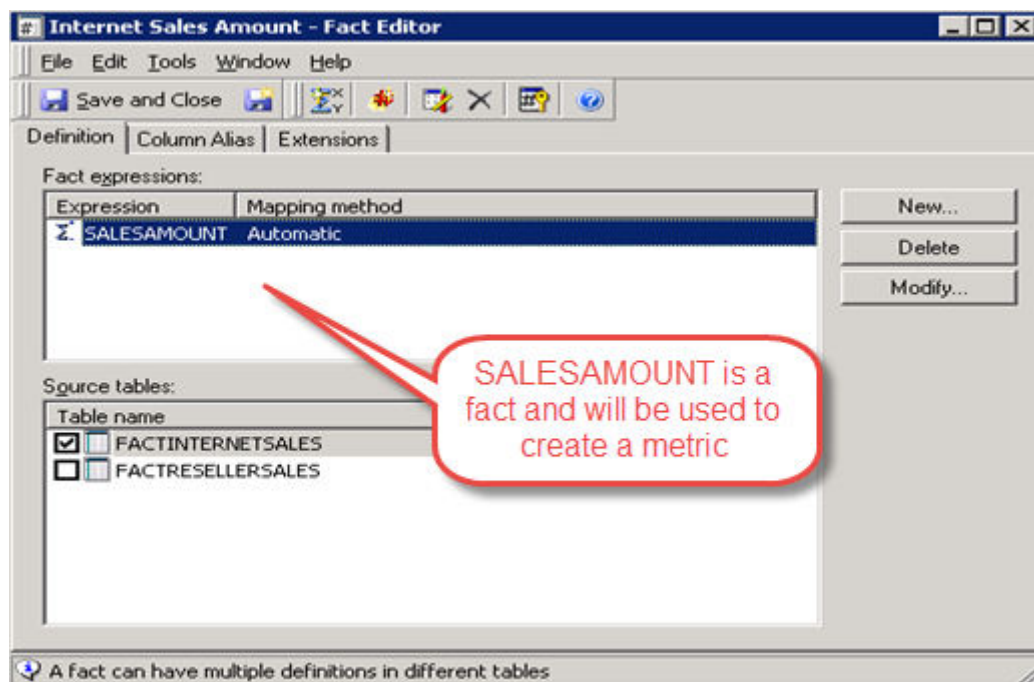
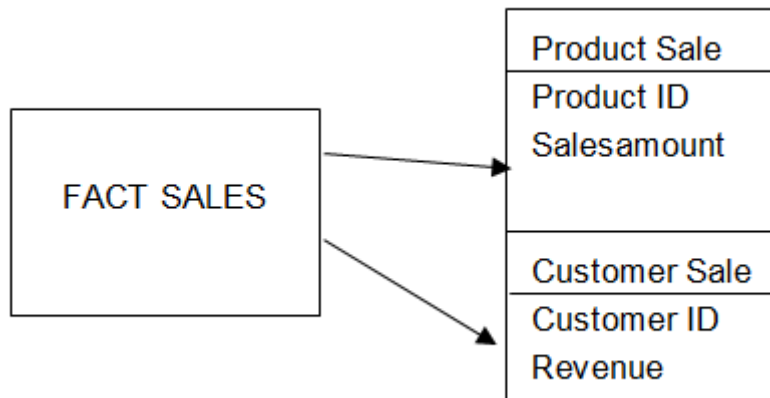
Form format

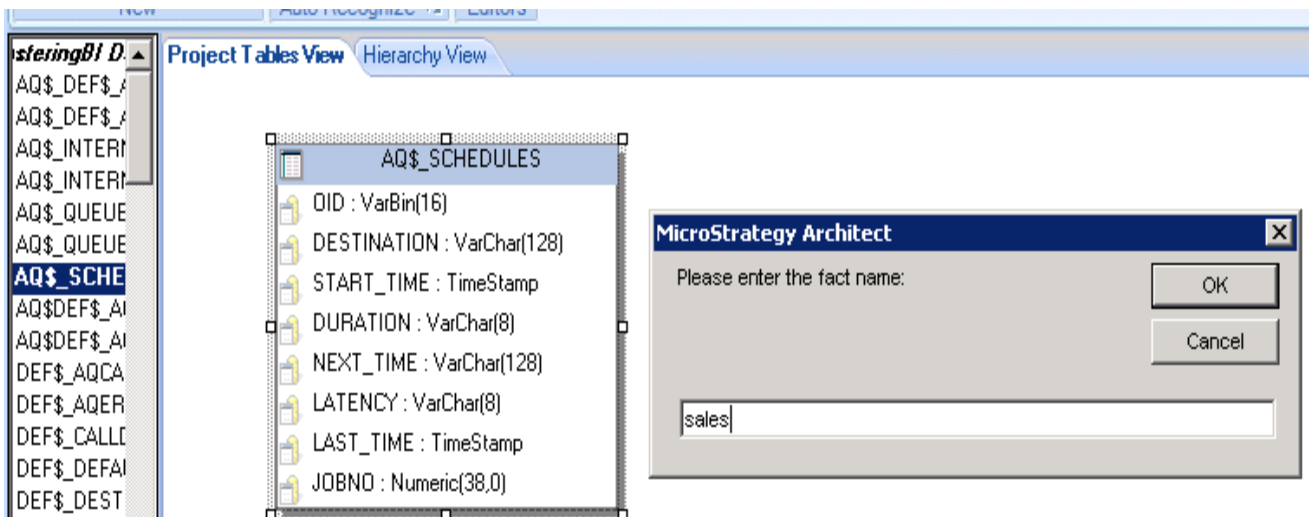
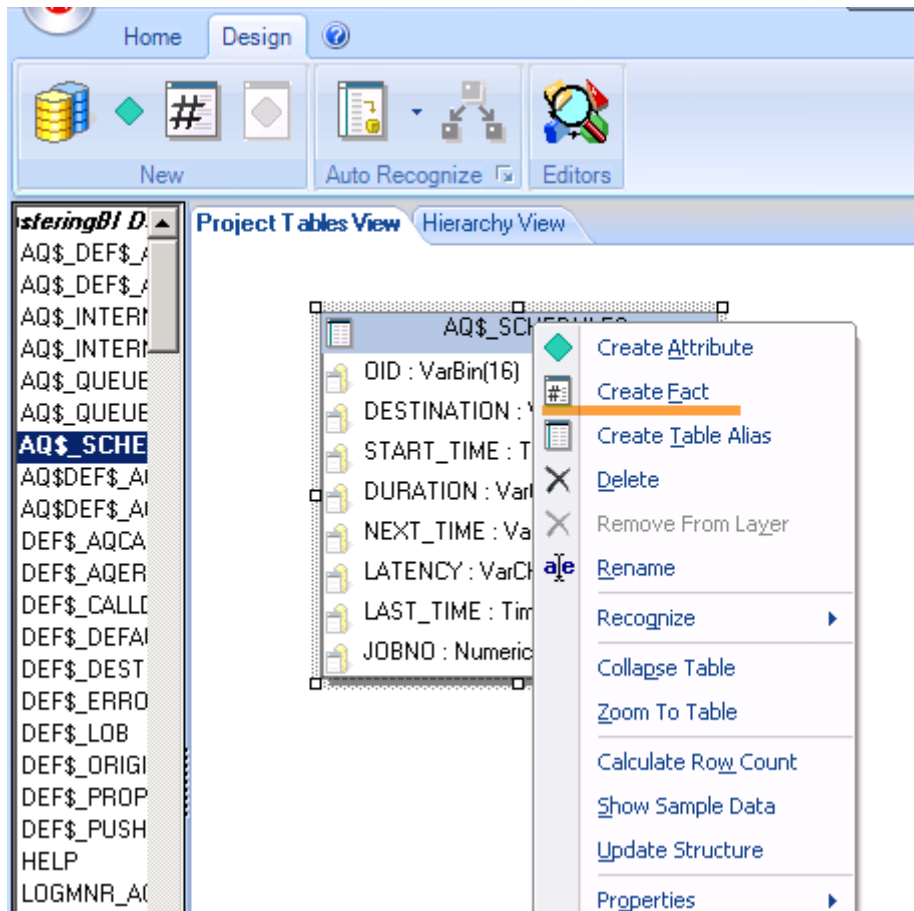
Type: Report sort:

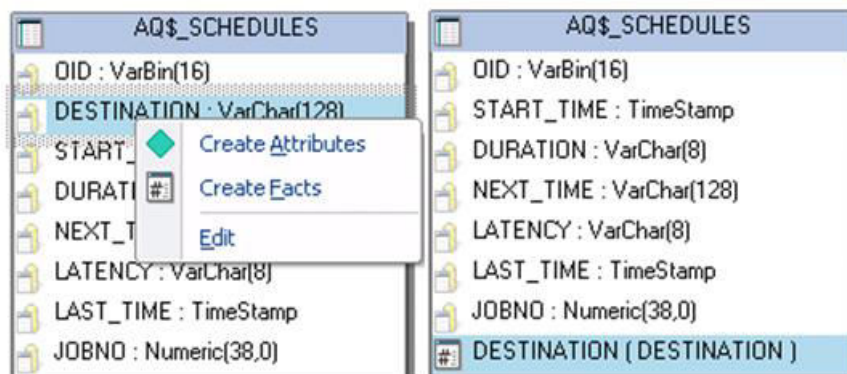
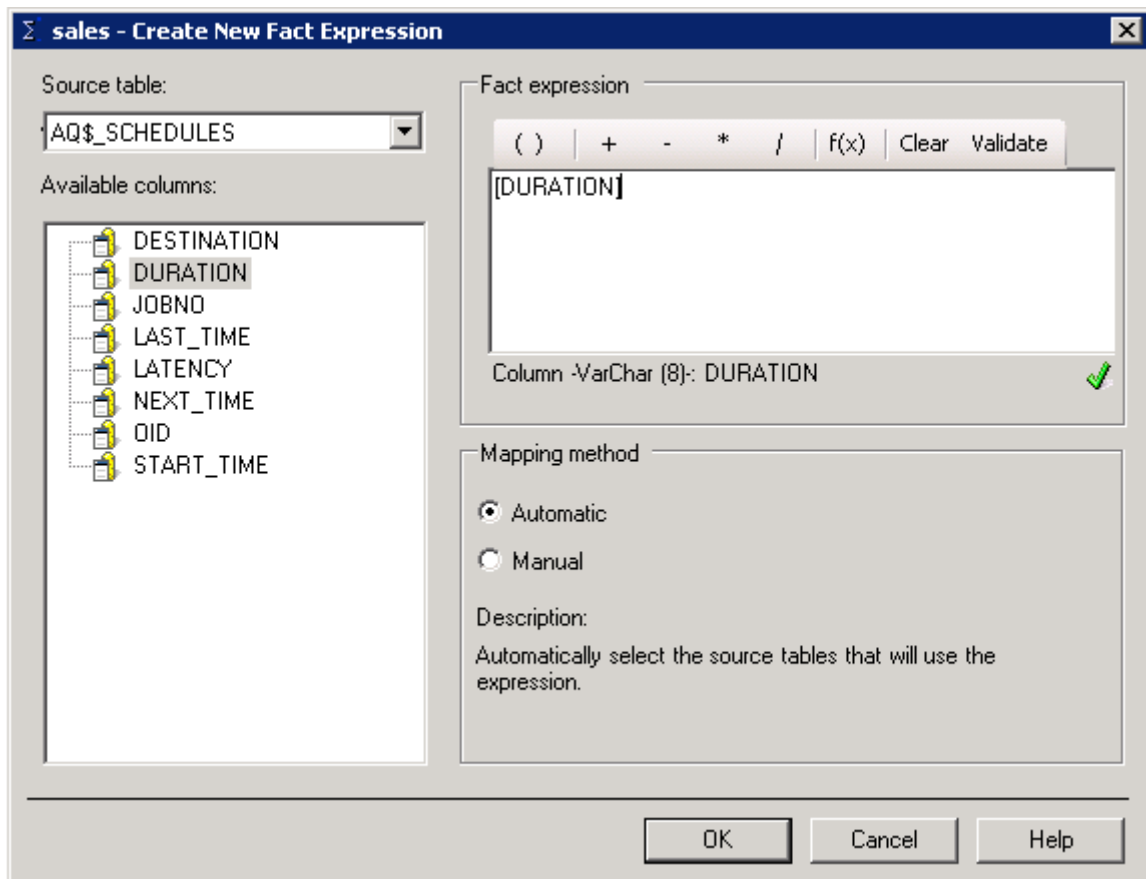
Geographical role: Browse sort:

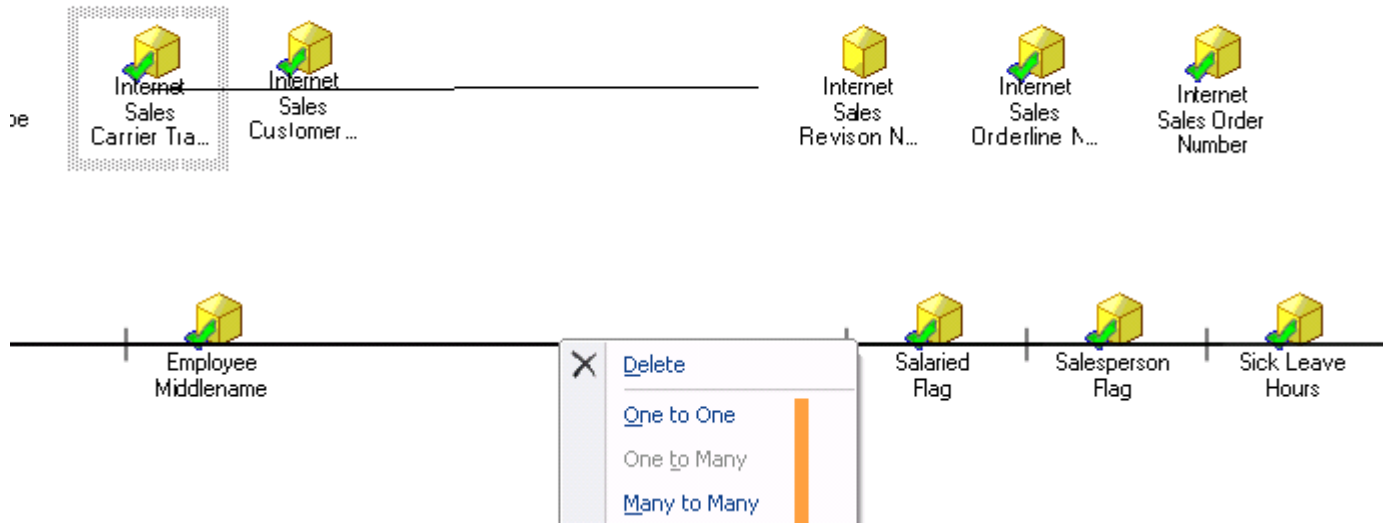
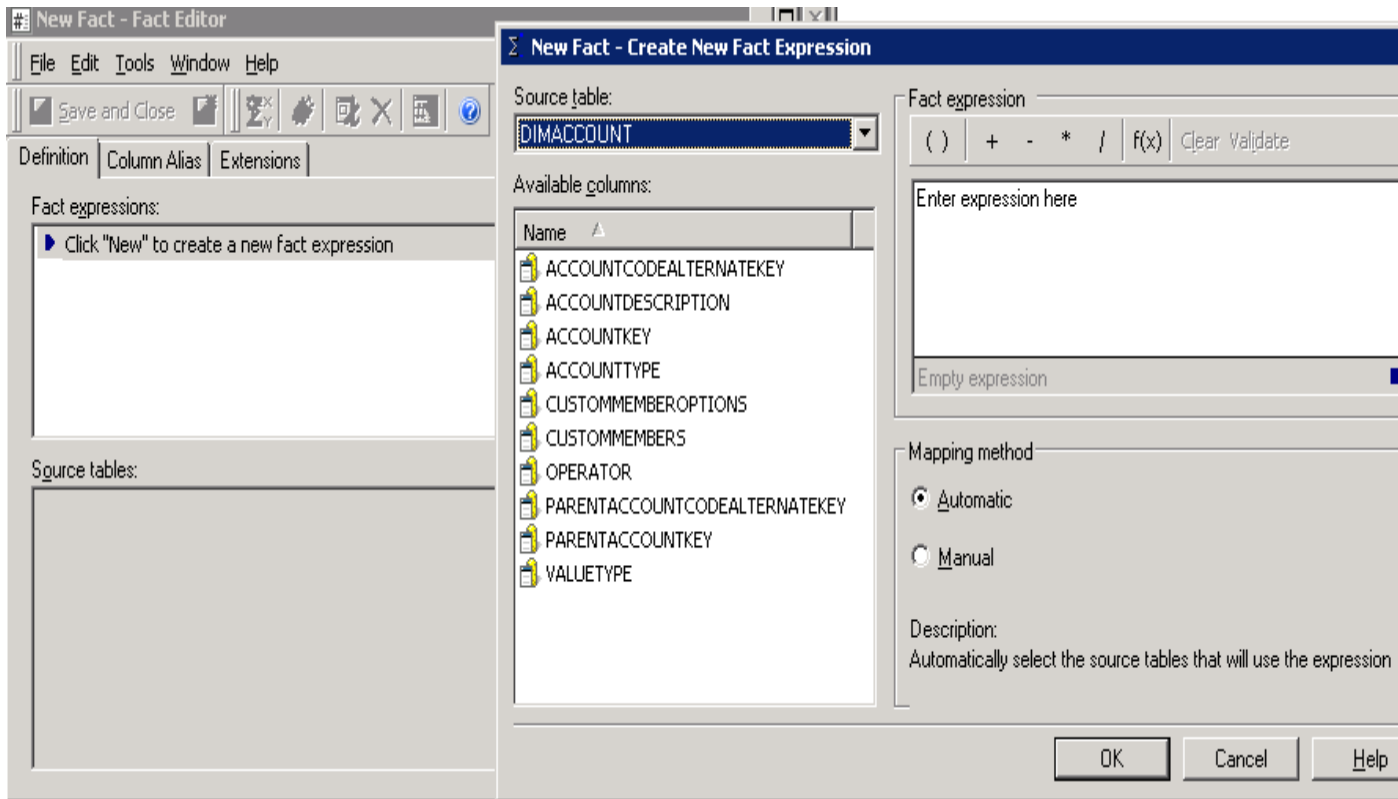
Image layout shape file:

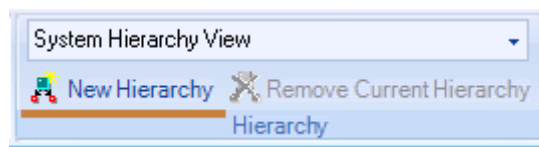
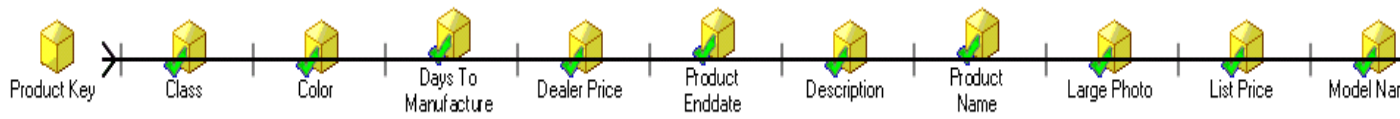
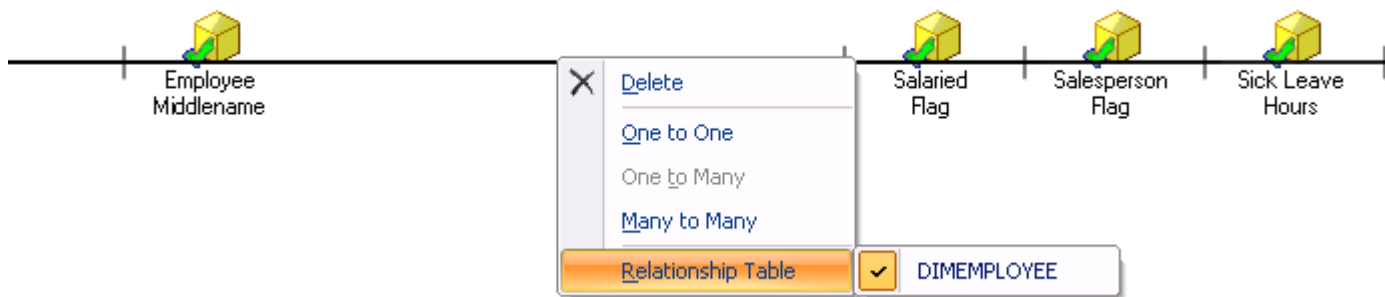
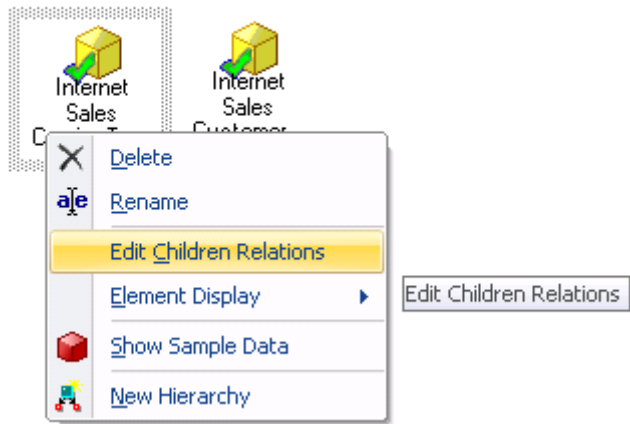















MicroStrategy Architect [X]

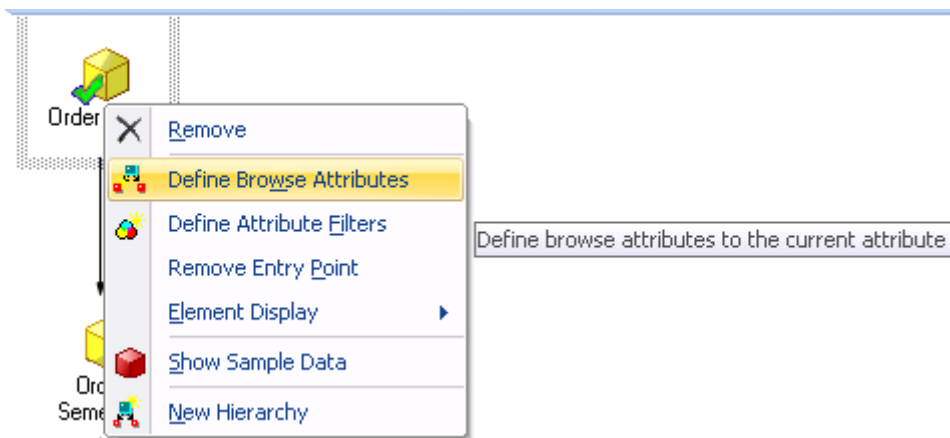
Please enter the hierarchy name:

OK

Cancel

Order date

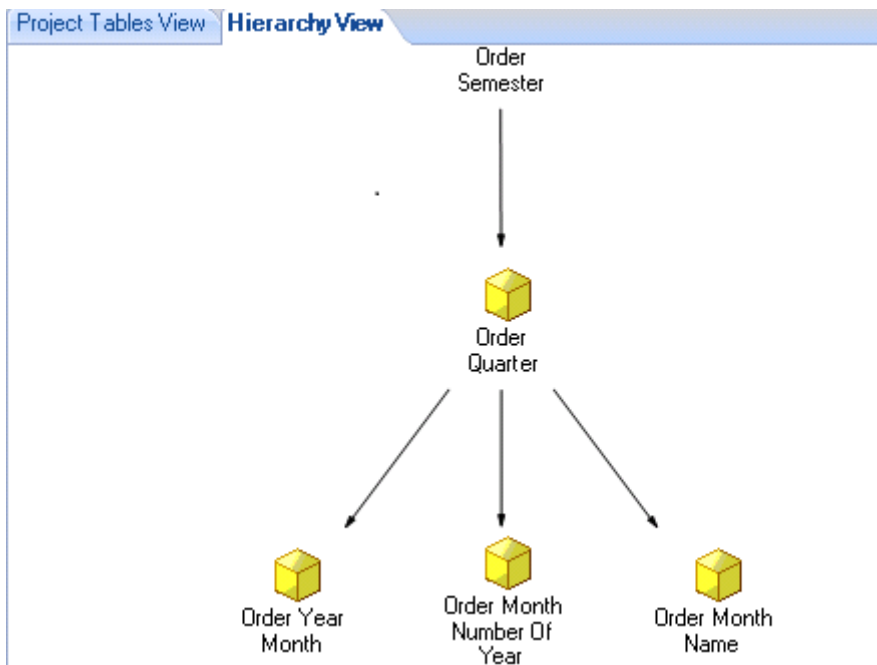
-  Rename
-  Add/Remove attributes in Hierarchy
- Use As a Drill Hierarchy
-  Normal mode

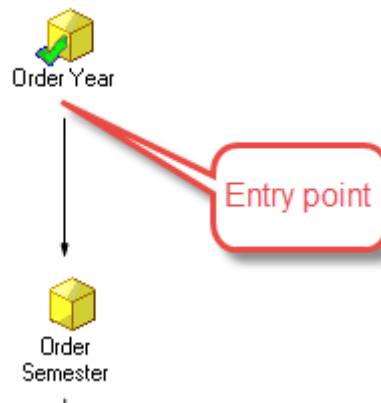
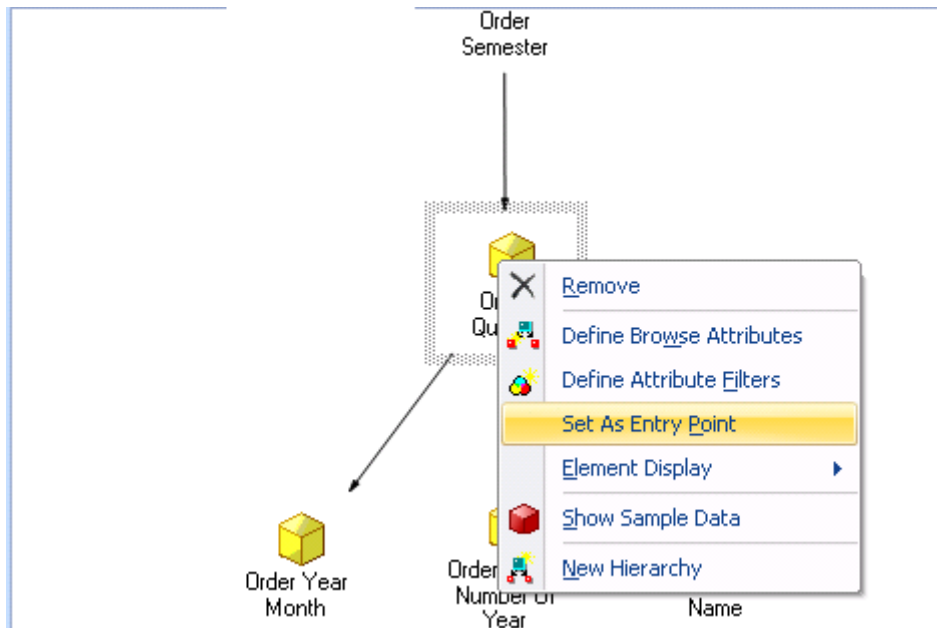


Order

- Remove
- Define Browse Attributes**
- Define Attribute Filters
- Remove Entry Point
- Element Display
- Show Sample Data
- New Hierarchy

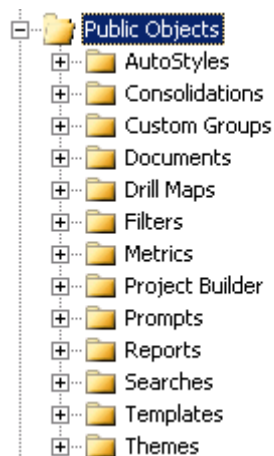
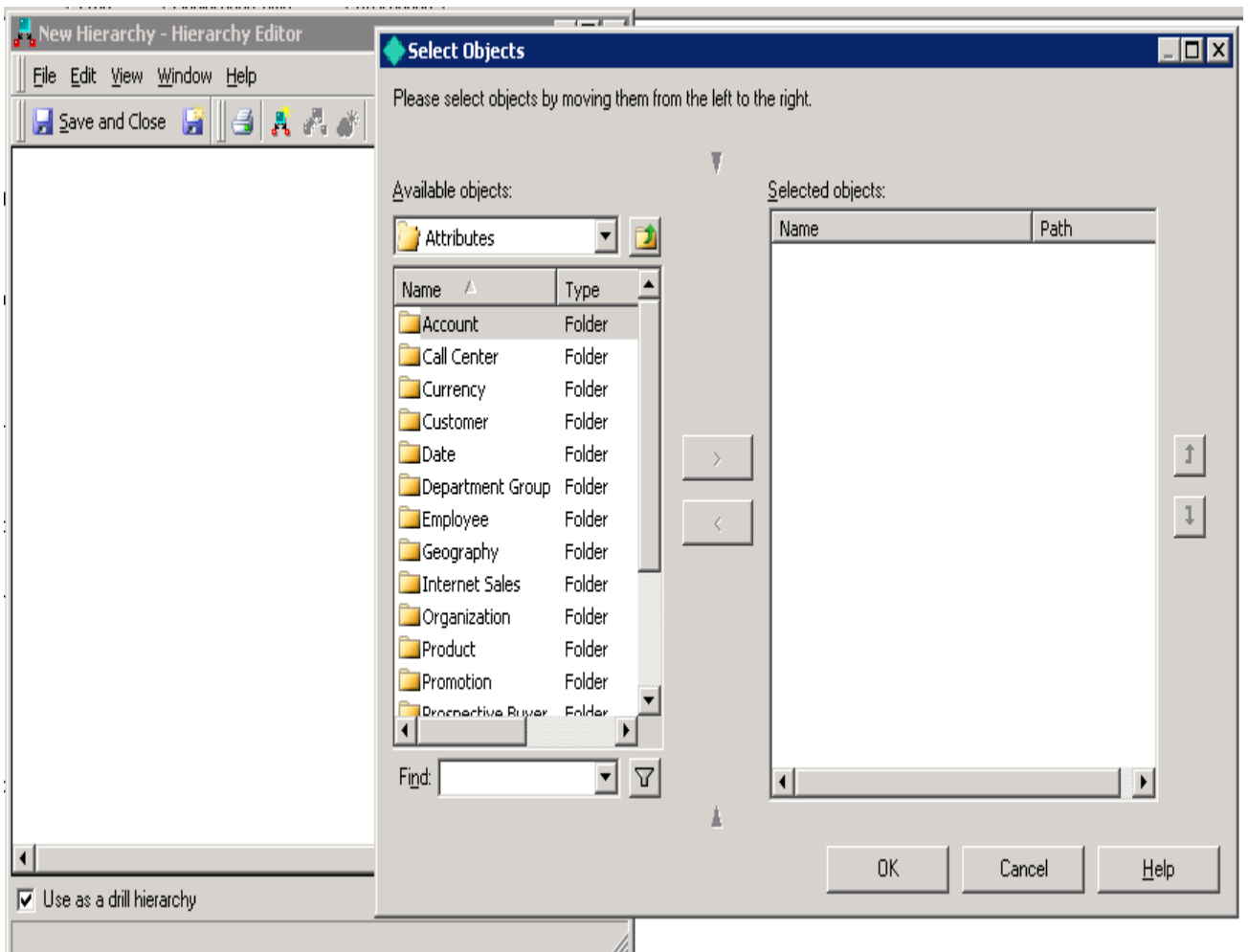
Define browse attributes to the current attribute

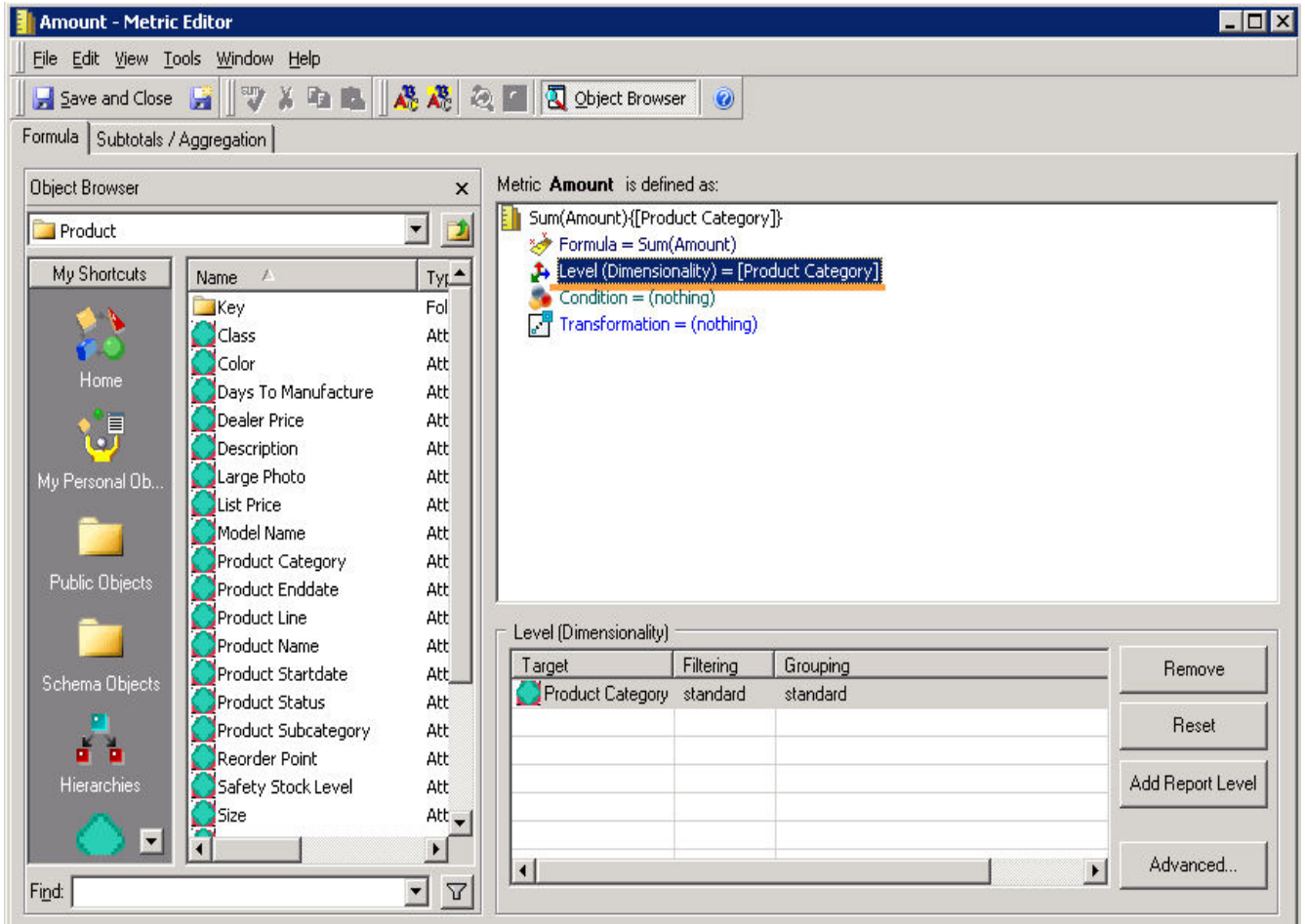




- Rename
- Add/Remove attributes in Hierarchy
- Use As a Drill Hierarchy
- Normal mode
- Zoom in mode
- Zoom out mode
- Copy Diagram to Clipboard
- Select Background Color

- Remove
- Define Browse Attributes
- Define Attribute Filters
- Set As Entry Point
- Element Display
 - Limit
 - Unlocked
 - Locked
- Show Sample Data
- New Hierarchy





Level metric

Amount - Metric Editor

File Edit View Tools Window Help

Save and Close Object Browser

Formula Subtotals / Aggregation

Object Browser

Filters

Name	Type	Modificatio
Himani	Folder	1/27/2016

My Shortcuts: Home, My Personal Ob..., Public Objects, Schema Objects, Hierarchies

Find:

Metric **Amount** is defined as:

- Sum(Amount){ReportLevel} <[year2007]>
- Formula = Sum(Amount)
- Level (Dimensionality) = ReportLevel
- Condition = [year2007]
- Transformation = (nothing)

Condition

Selected condition: year2007

Calendar Year In list (2007)

Browse... Edit... Clear Advanced...

Amount - Metric Editor

File Edit View Tools Window Help

Save and Close Object Browser

Formula Subtotals / Aggregation

Object Browser

Transformations

Name	Type
Previous Month	Transformation
Previous Quarter	Transformation
Previous Year	Transformation
YTD	Transformation

Find:

Metric **Amount** is defined as:

- Sum(Amount){ReportLevel}|YTD|
- Formula = Sum(Amount)
- Level (Dimensionality) = ReportLevel
- Condition = (nothing)
- Transformation = YTD

Transformations

Name	Description
YTD	

Remove

Reset

↑

↓

Input Metric Formula ✕

fx Metric Name:

Report objects

Name	Type	Modificati
Product Category	Attribute	1/22/2010
Internet Sales	Metric	1/21/2010
Resellers Sale	Metric	1/21/2010

[[Internet Sales] + [Resellers Sale]]

Metric: Resellers Sale

New Metric (2) - Metric Editor

File Edit View Tools Window Help

Save and Close Object Browser

Formula Subtotals / Aggregation

Object Browser

Facts

My Shortcuts

- Home
- My Personal Ob...
- Public Objects
- Schema Objects
- Hierarchies

Name
Amount
Automatic Responses
Average Currency Rate
Average Time Per Issue
Calls
Currency End Of Day Rate
Customercount
Internet Carrier Tracking Numbe
Internet Discount Amount
Internet Extended Amount
Internet Freight
Internet Order Quantity
Internet Product Standard Cost
Internet Sales Amount
Internet Tax Amt
Internet Total Product Cost
Internet Unit Price
Internet Unit Price Discount Pct
Issues Raised

Find:

Metric **New Metric (2)** is defined as:

- Sum(Amount){ReportLevel}
- Formula = Sum(Amount)
- Level (Dimensionality) = ReportLevel
- Condition = (nothing)
- Transformation = (nothing)

Definition

Name: New Metric (2)

() + - * / f(x)


Sum(Amount) {~+}

Validate

Clear

Fact: Amount

Prompt Generation Wizard [X]



Welcome to the

Prompt Generation Wizard

Please select the type of the prompt you want to create from the following list.

Filter definition prompt

Choose from all attributes in a hierarchy

Qualify on an attribute

Choose from an attribute element list

Qualify on a metric

Object prompt

Value prompt

Level prompt


Description

This type of prompt allows you to qualify on an attribute's ID, description or other form.

Help Cancel < Back Next > Finish

Prompt Generation Wizard [X]

Select an attribute or an attribute search object to be used in the prompt.



Choose an attribute ...

Use the results of a search object

...

New... Clear Edit...

Use a predefined list of attributes

Add...	Name	Type	↑
Remove			↓
Clear			

Displayed forms: Select Forms


Description

The description for the attribute 'City' is not available.

Help Cancel < Back Next > Finish

Prompt Generation Wizard [X]

Provide general information for the prompt.



Display properties

Title:

Instructions:

Web options:

Personal answers allowed:

Prompt restrictions

Max number of elements per selection:

Minimum number of qualifications:

Maximum number of qualifications:

Prompt answer required

New Filter - Filter Editor [X]

File Edit View Insert Filter Window Help

Save and Close [Icons]

Object Browser

Data Explorer - MasteringBI

Name	Type
System Hierarchy	System

Find:


Filter definition:

▶ Double-click here to add a qualification, or drag an object from the object browser.

Filtering Options

Choose one of the following options

- Add an Attribute qualification
- Add a Set qualification
- Add a Shortcut to a Report
- Add a Shortcut to a Filter
- Add an Advanced qualification

 **Attribute Qualification**

Attribute Qualification

Choose an attribute

Attribute: Base Year Month

Qualify On: ID

Operator: Exactly

Value

- Exactly
- In list
- Not in list
- Between
- Greater than
- Greater than or equal to
- Less than
- Less than or equal to
- Different from
- Not between
- Is Null
- Is Not Null
- Begins with
- Like
- Contains
- Ends with
- Does not begin with
- Not like
- Does not contain
- Does not end with

Report Filter: 'Local Filter'

Shortcut to: year2007

Double-click here to add a qualification, or use the object from the object browser.

Filter added on to report

Report View: 'Local Template'

	Calendar Quarter	
	Metrics	Amount revenue
Organization Name		

```

select  a14.ORGANIZATIONNAME ORGANIZATIONNAME,
        a13.CALENDARQUARTER CALENDARQUARTER,
        sum(a11.AMOUNT) WJXBFS1
from    EDW.FACTFINANCE a11
join    EDW.DIMACCOUNT a12
on      (a11.ACCOUNTKEY = a12.ACCOUNTKEY)
join    EDW.DIMDATE a13
on      (a11.DATEKEY = a13.DATEKEY)
join    EDW.DIMORGANIZATION a14
on      (a11.ORGANIZATIONKEY = a14.ORGANIZATIONKEY)
where   (a12.ACCOUNTTYPE in (N'Revenue')
and a13.CALENDARYEAR = 2007)
group by a14.ORGANIZATIONNAME,
         a13.CALENDARQUARTER

```


Chapter 3: Building Advanced Reports and Documents

Custom Group definition

- ▶ ▶ **American region**
 - ▶ Sales Territory Country In list (Canada, United States)
 - ▶ [\[Add Qualification\]](#)
 - ▶ ▶ **European Region**
 - ▶ Sales Territory Country In list (France, Germany, United Kingdom)
 - ▶ [\[Add Qualification\]](#)
- ▶ **Double-click here or drag an object from the object browser to add a custom group element.**

Custom Group Options

Choose one of the following options

- Add an Attribute qualification
- Add a Set qualification
- Add a Shortcut to a Report
- Add a Shortcut to a Filter
- Add a Custom Group Banding qualification
- Add an Advanced qualification

Custom Group definition

- ▶ ▶ **Based on year**
 - ▶ Calendar Year (ID) Between 2005 AND 2008
 - ▶ [\[Add Qualification\]](#)
- ▶ **Double-click here or drag an object from the object browser to add a custom group element.**

	Metrics	Amount revenue
Custom group		
Based on year		134,117,770
2005		23,486,861
2006		46,189,611
2007		43,453,065
2008		20,988,233

Custom Group definition

Custom Group 1

Calendar Year To End (2007 - 2007)

Set Qualification

Set Qualification Type

Type: Metric

Output Level

Set of Sales Territory Region

Choose a metric

Metric: Total Sales

Parameters

Function: Rank

Operator: Top

Value: 3

OK

Cancel

Help

Prompt...

Break By...

Advanced...

Top 3 organizations		
	Canadian Division	79,353,874
	Central Division	34,471,460
	Southwest Division	17,215,212
		27,667,203

Custom Group definition

Custom Group 1

Calendar Year To End (2007 - 2007)

Custom Group Band Qualification

Choose a metric

Metric: Total Sales

Band on: Rank

Banding type: Band Count

Start at: 1

Stop at: 10

Band count: 2

OK

Cancel

Help

Level...

Revenue range		134,117,770
Band (1)		108,482,415
	Canadian Division	34,471,460
	Central Division	17,215,212
	Northeast Division	13,877,401
	Northwest Division	15,251,140
	Southwest Division	27,667,203
Band (2)		25,635,355
	Australia	3,641,063
	France	6,309,020
	Germany	2,763,040
	Southeast Division	12,922,231

Based on year

- Calendar Year (ID) Between 2005 AND 2008
 - [\[Add Qualification\]](#)

Top 3 organizations

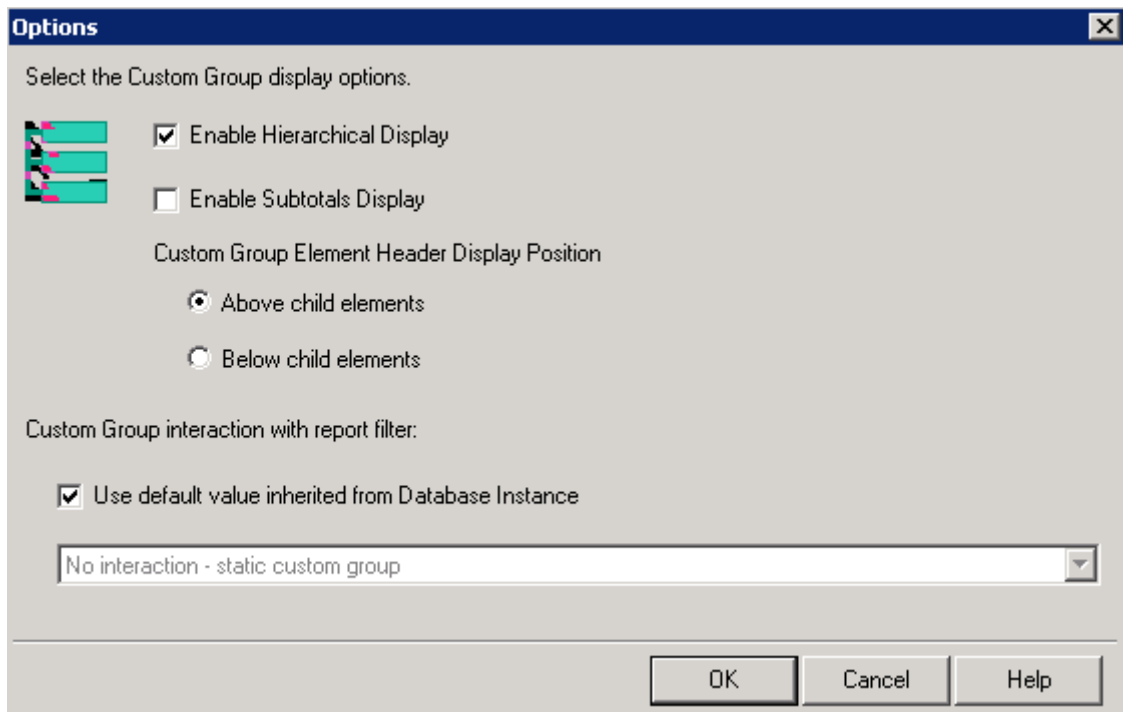
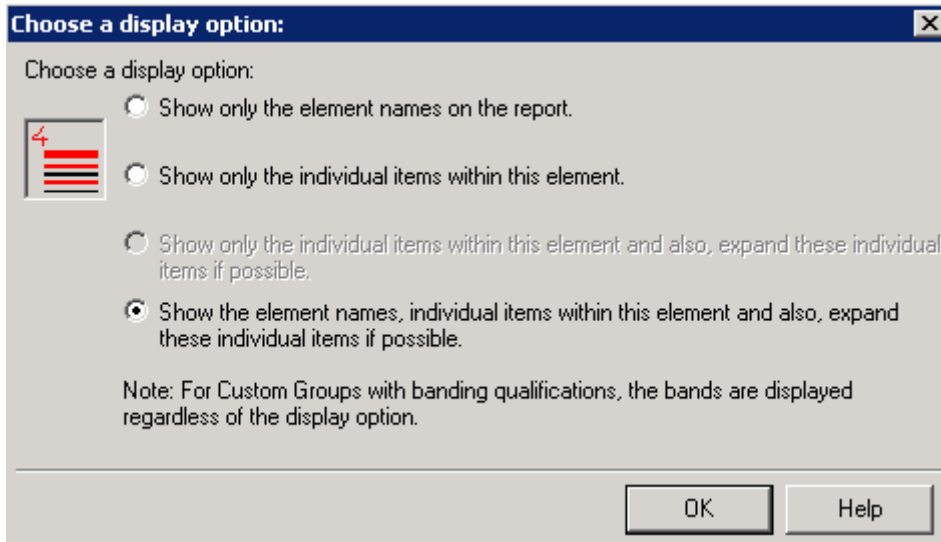
- Set of Organization Name where (Rank of 'Amount revenue' Top 3)
 - [\[Add Qualification\]](#)

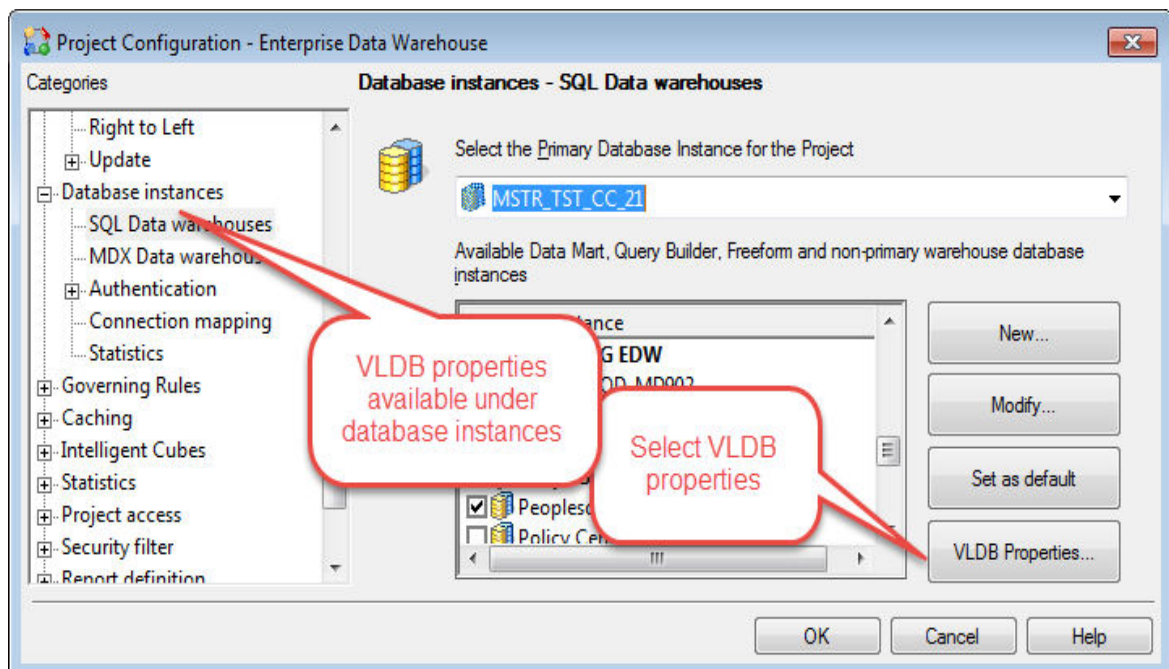
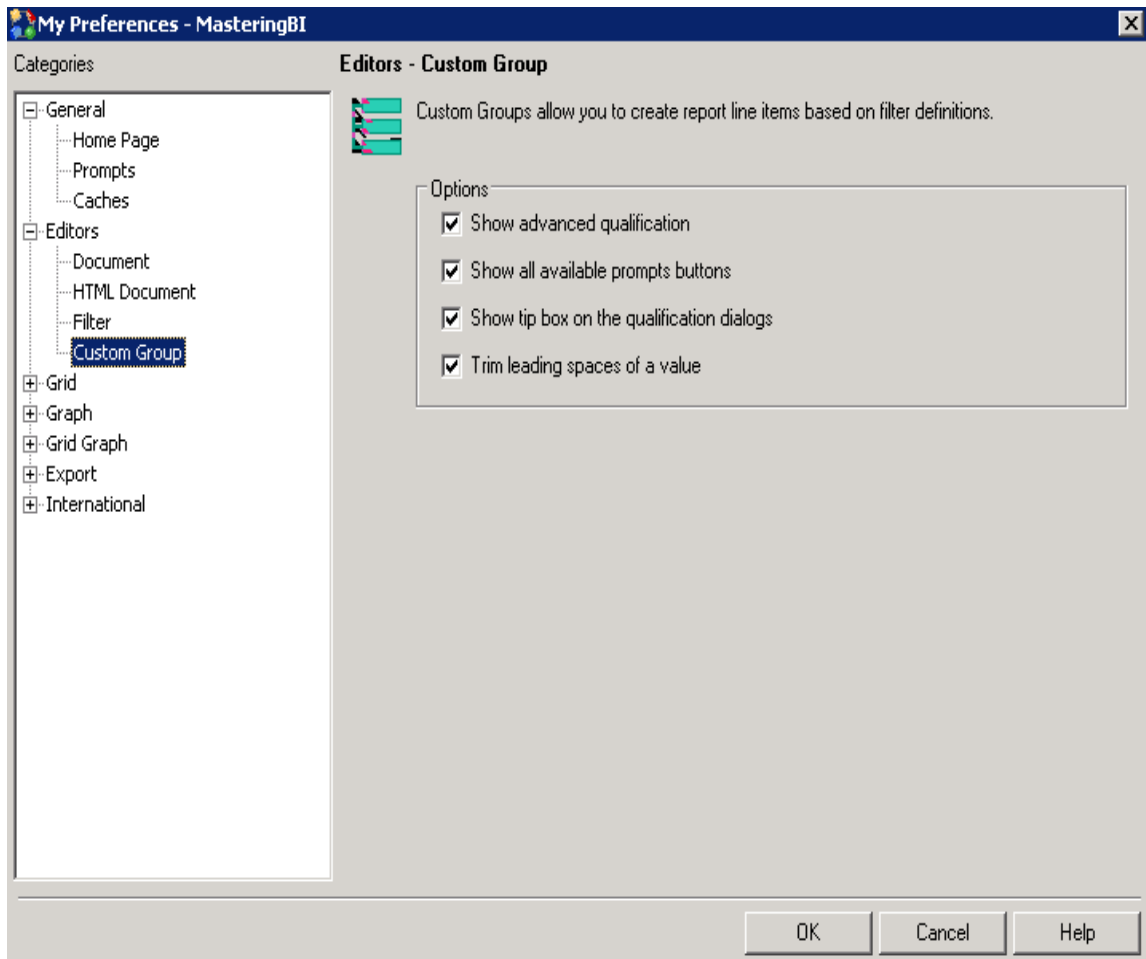
Revenue range

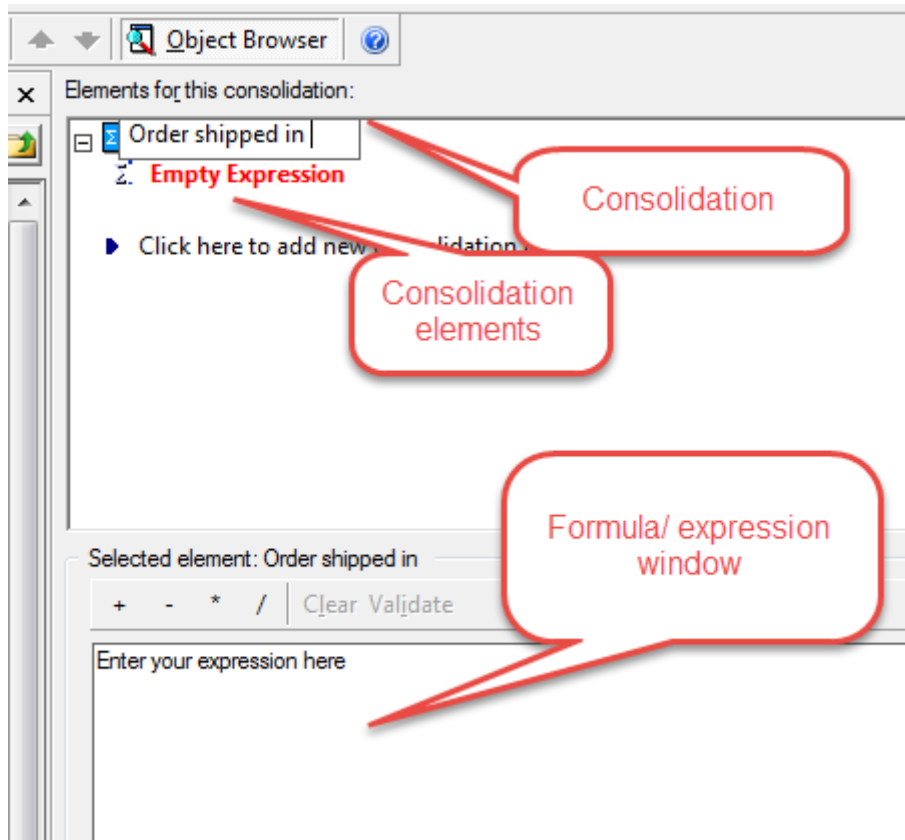
- Rank of 'Amount revenue'.Band Count [Start At = 1; Stop At = 10; Band Count = 2]
 - [\[Add Qualification\]](#)

▶ Double-click here or drag an object from the object browser to add a custom group element.

Report details		
View filter		
	Metrics	Amount revenue
Custom group		
Based on year		134,117,770
	2005	23,486,861
	2006	46,189,611
	2007	43,453,065
	2008	20,988,233
Top 3 organizations		79,353,874
	Canadian Division	34,471,460
	Central Division	17,215,212
	Southwest Division	27,667,203
Revenue range		134,117,770
	Band (1)	108,482,415
	Canadian Division	34,471,460
	Central Division	17,215,212
	Northeast Division	13,877,401
	Northwest Division	15,251,140
	Southwest Division	27,667,203
	Band (2)	25,635,355
	Australia	3,641,063
	France	6,309,020
	Germany	2,763,040
	Southeast Division	12,922,231







Elements for this consolidation:

	Metrics	Total Order Quantity
Airthmetic Consolidation		
Orders shipped in 1st semester		120,848
Order shioood in 2nd semester		153,928

Elements for this consolidation:

- Orders shipped in 1st semester
 - {Ship Quarter=1} + {Ship Quarter=2}
- Order shioood in 2nd semester
 - {Ship Quarter=3} + {Ship Quarter=4}
- Click here to add new consolidation element

Elements for this consolidation:

- Bike 1st semester 2005
 - {(Ship Quarter=1 AND Calendar Year=2007 AND Product Category=Bikes)} + {(Product Category=Bikes AND Calendar Year=2007 AND Ship Quarter=2)}
- Bikes 2nd Semester 2005
 - {(Calendar Year=2007 AND Product Category=Bikes AND Ship Quarter=3)} + {(Product Category=Bikes AND Ship Quarter=4 AND Calendar Year=2007)}

	Ship Year	Metrics	Total Order Quantity
Consolidation-logical			
Bike 1st semester 2005	2007		14,225
Bikes 2nd Semester 2005	2007		22,560

Elements for this consolidation:

- [-] Bike 1st semester 2005
 - Σ. ({Ship Quarter=1 AND Calendar Year=2007 AND Product Category=Bikes} + {Product Category=Bikes AND Calendar Year=2007 AND Ship Quarter=2})
- [-] Bikes 2nd Semester 2005
 - Σ. ({Calendar Year=2007 AND Product Category=Bikes AND Ship Quarter=3} + {Product Category=Bikes AND Ship Quarter=4 AND Calendar Year=2007})
- [-] Bikes 2nd sem - 1st sem
 - Σ. ([Bikes 2nd Semester 2005] - [Bike 1st semester 2005])

Consolidation-logical	Metrics	Total Sales
	Bike 1st semester 2005	
Bikes 2nd Semester 2005		21,552,573
Bikes 2nd sem - 1st sem		8,194,269

Elements for this consolidation:

- [-] Bike 1st semester 2005
 - Σ. ({Ship Quarter=1 AND Calendar Year=2007 AND Product Category=Bikes} + {Product Category=Bikes AND Calendar Year=2007 AND Ship Quarter=2})
- [-] Bikes 2nd Semester 2005
 - Σ. ({Calendar Year=2007 AND Product Category=Bikes AND Ship Quarter=3} + {Product Category=Bikes AND Ship Quarter=4 AND Calendar Year=2007})
- [-] Bike 2nd sem/1st sem
 - Σ. ([Bikes 2nd Semester 2005] / [Bike 1st semester 2005])

Elements for this consolidation:

- [-] Orders shipped in 1st semester
 - Σ. ({Ship Quarter=1} + {Ship Quarter=2})
- [-] Order shiooed in 2nd semester
 - Σ. ({Ship Quarter=3} + {Ship Quarter=4})
- [-] Bikes 2nd Sem/1st sem
 - Σ. ([Order shiooed in 2nd semester] / [Order shipped in 1st semester])

Click here to add new element

Selected element: Bike 2nd sem/1st sem

+ - * / C

[[Order shiooed in 2nd semester] / [Order shipped in 1st semester]]

- Add Element
- Delete Element
- Rename Element F2
- Move Up
- Move Down
- Import Elements...
- Formatting properties
 - Element Header...
 - Element Values...
- Subtotals
 - Clear Element Formatting

[Analytical engine calculation steps:

1. Calculate consolidation: <Consolidation-logical>
2. Perform cross-tabbing

]

	DateKey	YTD_key
1	20050101	20050101
2	20050102	20050101
3	20050103	20050101
4	20050104	20050101
5	20050105	20050101
6	20050106	20050101
7	20050107	20050101
8	20050108	20050101
9	20050109	20050101
10	20050110	20050101
11	20050111	20050101
12	20050112	20050101
13	20050113	20050101

YTD - Transformation Editor

File Edit Tools Window Help

Save and Close

Member attributes

Attribute name	Member expression	Member table
Date	YTD_DATEKEY	DIMYTD

Add...
Remove
Modify...

Transformation mapping type:
 One to one
 Many to many
 Defines a one-to-one mapping

Date - Modify an existing member attribute expression

Table: DIMYTD

Available columns:

Name
DATEKEY
YTD_DATEKEY

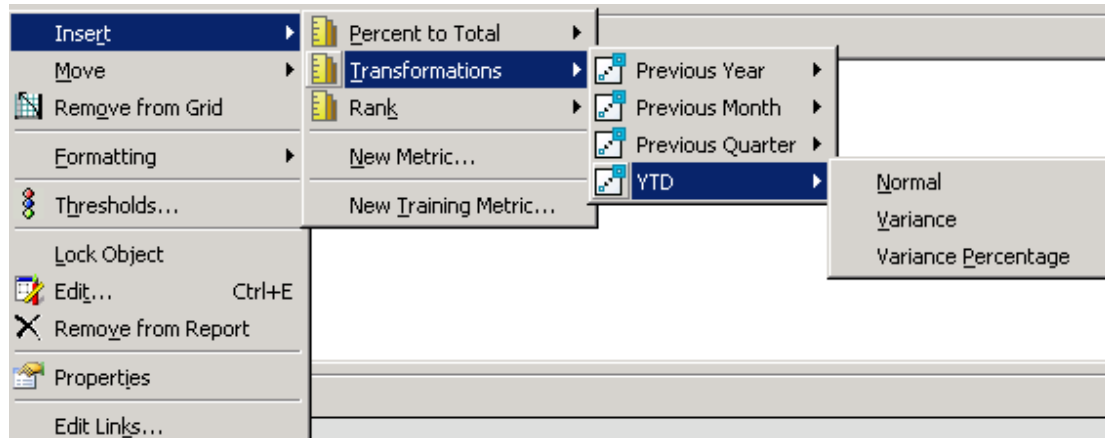
Member attribute expression: () + - * / f(x) Clear Validate

[YTD_DATEKEY]

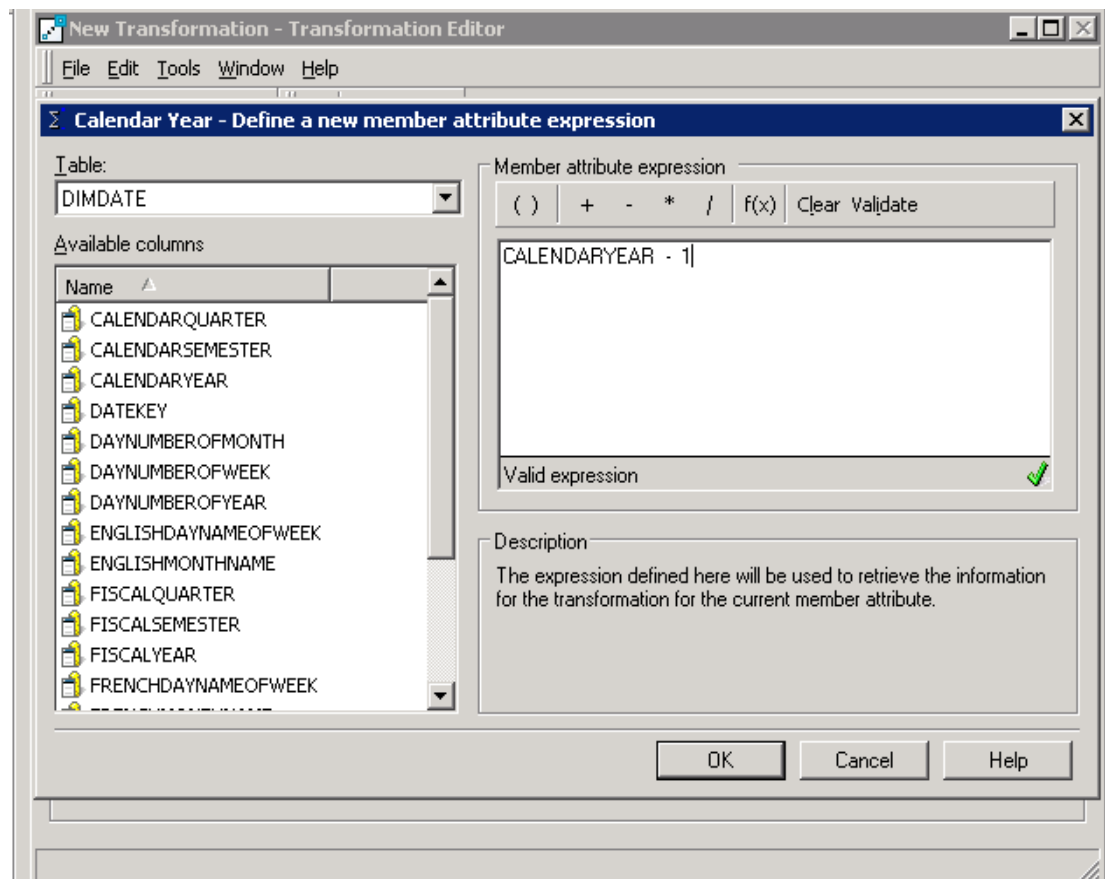
Valid expression

Description:
The expression defined here will be used to retrieve the information for the transformation for the current member attribute.

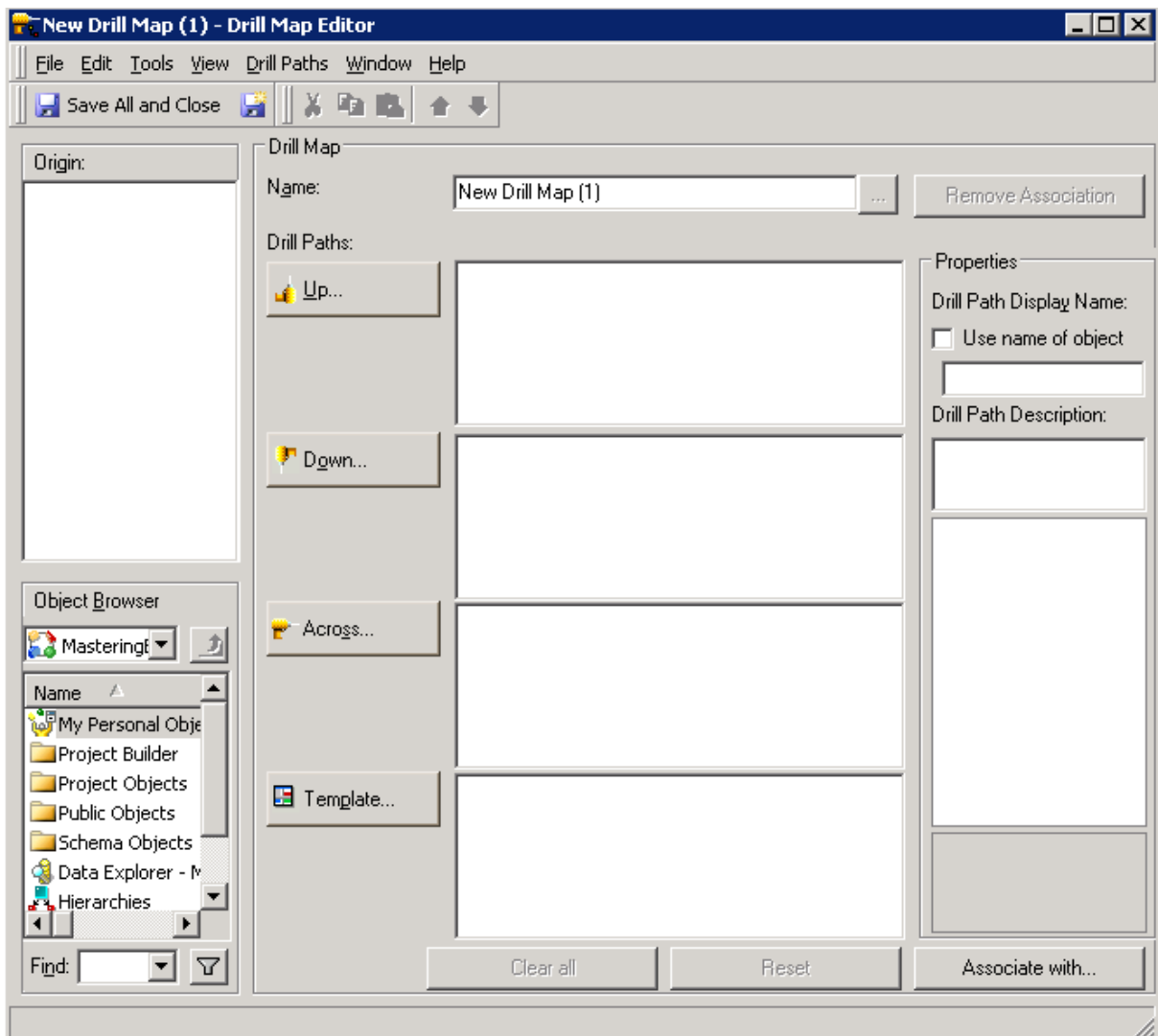
OK Cancel Help

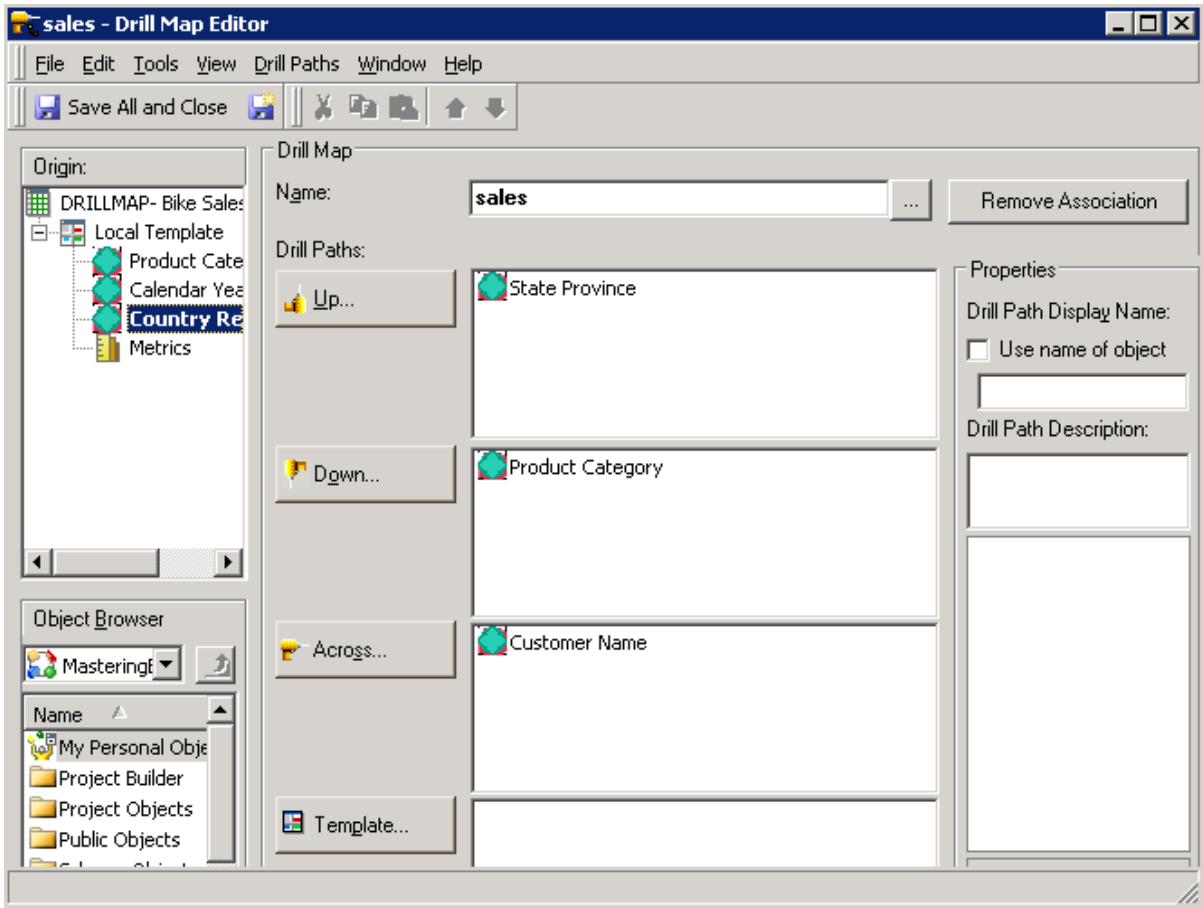


Date	Organization Name	Metrics	Amount	YTD (Amount)
20070801	Southeast Division		13,007,531	62,477,384
20070901	Canadian Division		12,726,619	79,667,776
20071201	Canadian Division		12,214,191	110,629,436
20070901	Southeast Division		11,230,446	73,707,830
20060801	Canadian Division		11,144,848	59,048,149
20060901	Canadian Division		11,102,116	70,150,265
20060801	Southeast Division		11,064,163	59,180,426
20060701	Canadian Division		11,062,948	47,903,301
20071101	Southeast Division		10,964,078	91,969,595
20051101	Southeast Division		10,670,564	29,545,473
20070801	Canadian Division		10,578,138	66,941,157



Organization Name	Metrics	Transformation	
		Revenue 2008	Revenue 2007
Australia		1,655,326	1,985,737
Canadian Division		4,507,458	10,954,950
Central Division		2,087,646	5,108,907
France		1,858,094	3,288,195
Germany		1,150,205	1,574,373
Northeast Division		1,710,389	4,622,633
Northwest Division		2,718,923	4,695,559
Southeast Division		1,418,765	2,855,418
Southwest Division		3,881,428	8,367,292





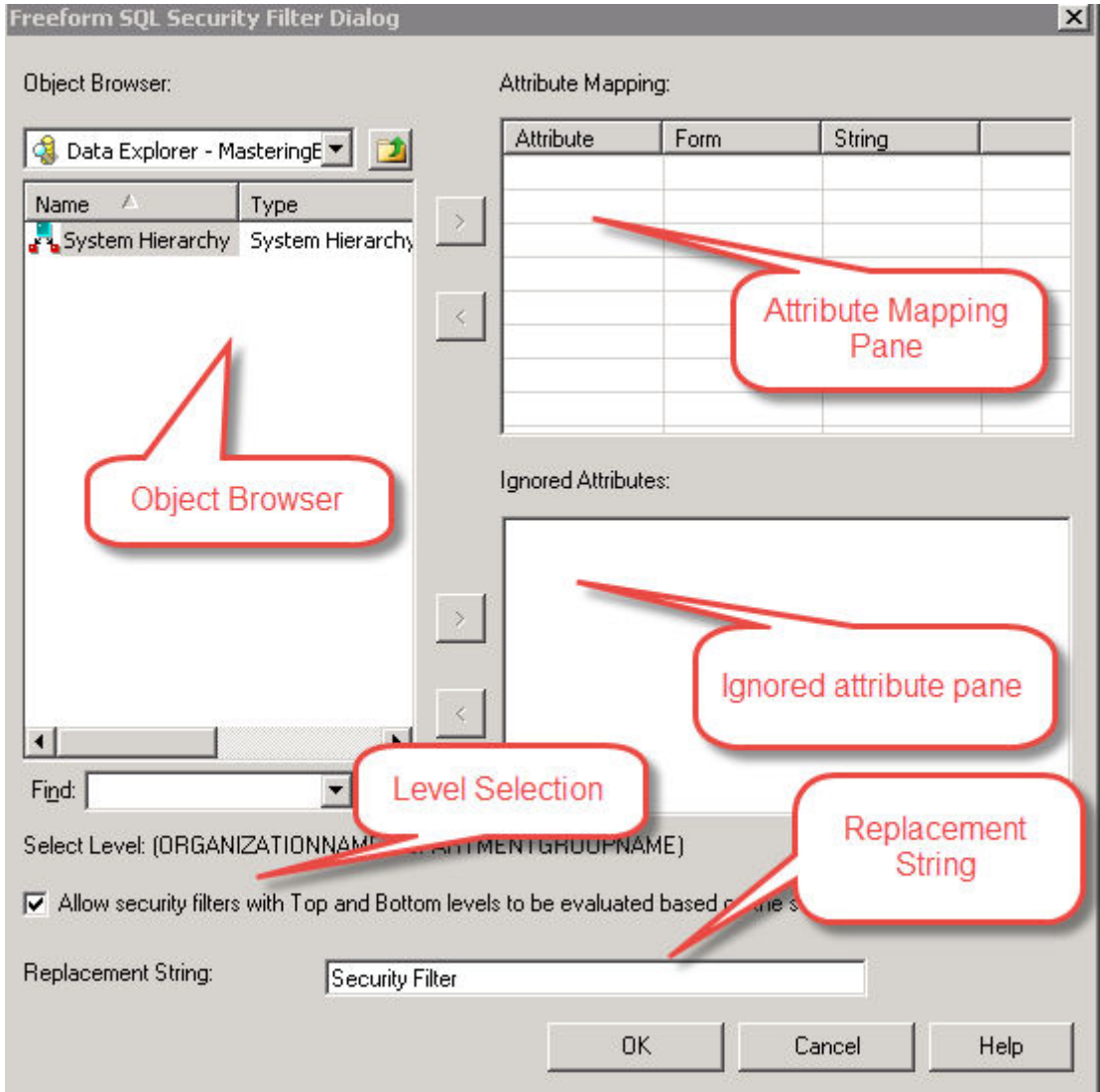
Country Region Name	Calendar Year	Metrics	Internet Sales
Australia	2005		52,361,888
	2006		86,171,305
Canada	2005		10,718,576
	2006		45,376,974
	2007		34,415,519
France	2005		8,667,441
	2006		24,717,217
	2007		47,416,329
Germany	2005		15,456,024
	2006		33,880,005
	2007		66,534,624
United Kingdom	2005		15,454,298
	2006		31,354,103
	2007		66,307,215
United States	2005		121,500,826
	2006		232,736,206
	2007		294,224,115
	2008		339,959,192

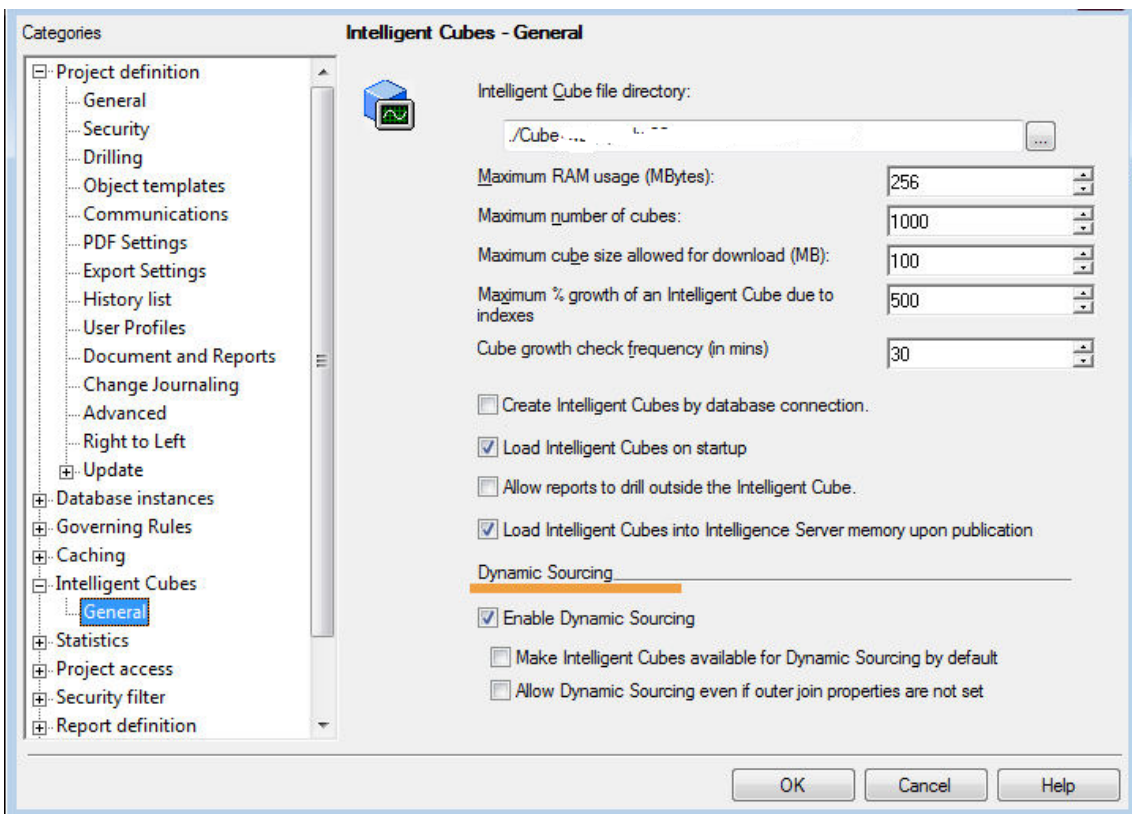
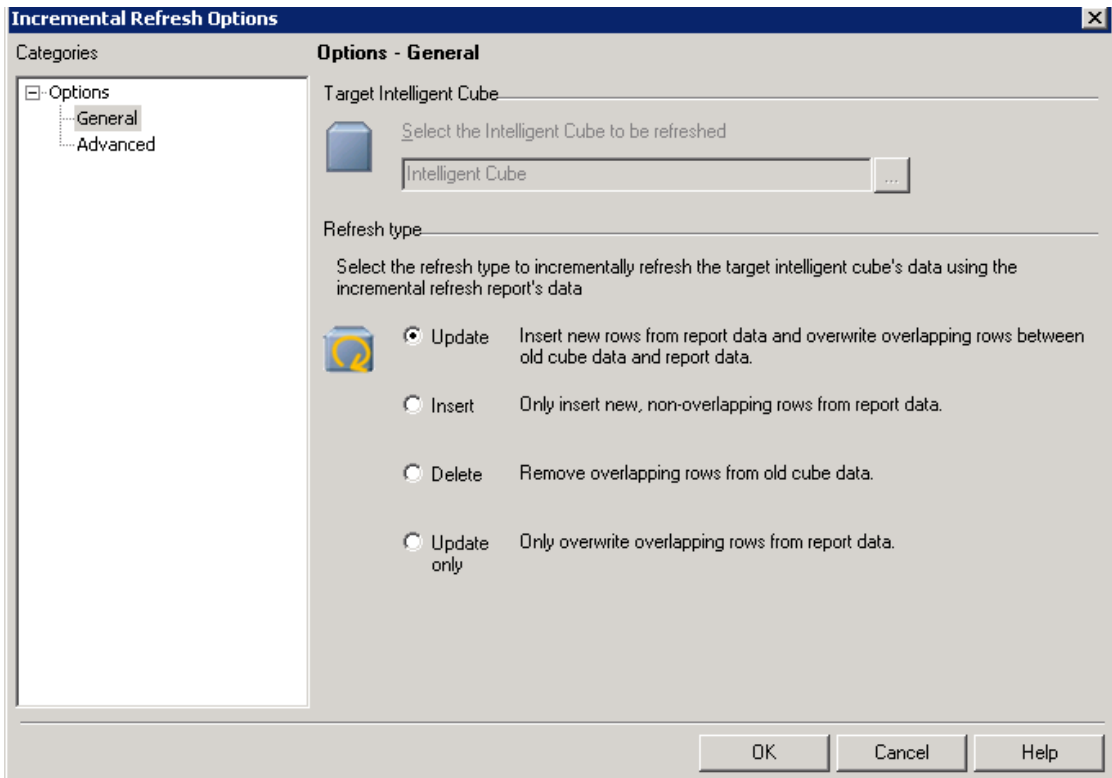
The screenshot shows a BI tool interface with several key components:

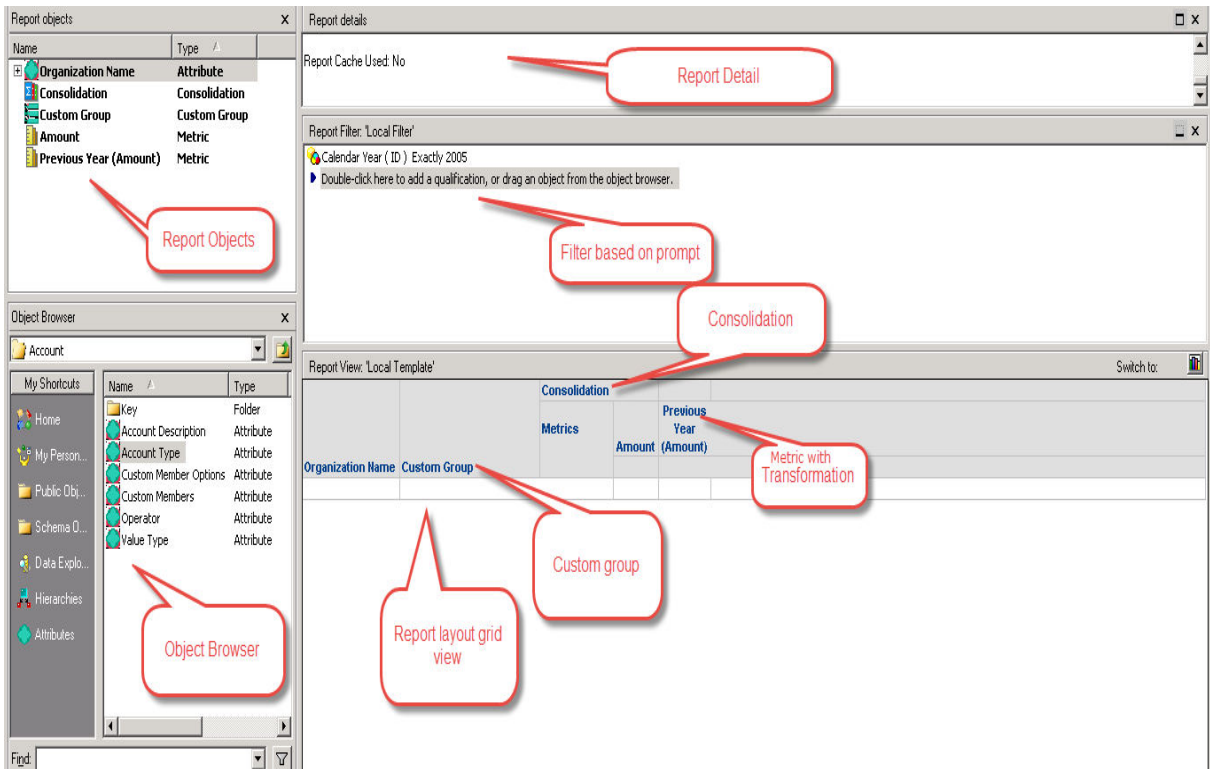
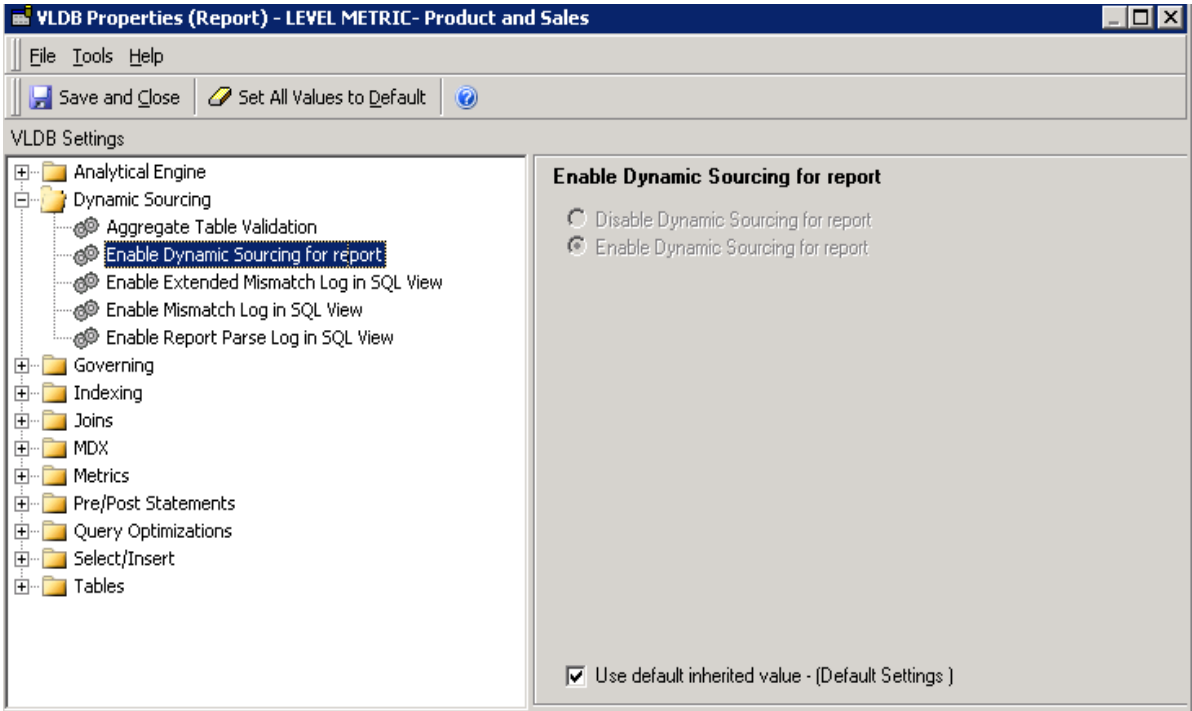
- Data Source:** A dropdown menu at the top center is set to "MasteringBI Database Instance".
- Object Browser:** Located on the left side, it displays a tree view of objects including "Freeform Objects", "Amount" (Metric), "DEPARTMENTGROUPNAME" (Attribute), and "ORGANIZATIONNAME" (Attribute).
- SQL Statement Pane:** The central area contains a SQL query:


```
select do.ORGANIZATIONNAME, dg.DEPARTMENTGROUPNAME, sum(ff.AMOUNT) from edw.FACTFINANCE ff
join edw.dimorganization do
on ff.ORGANIZATIONKEY = do.ORGANIZATIONKEY
join edw.dimaccount da
on da.ACCOUNTKEY = ff.ACCOUNTKEY
join edw.DIMDATE dd
on dd.DATEKEY = ff.DATEKEY
join edw.DIMDEPARTMENTGROUP dg
on ff.DEPARTMENTGROUPKEY= dg.DEPARTMENTGROUPKEY
where
dd.CALENDARYEAR = Year
and da.ACCOUNTTYPE in [Account Type]
group by do.ORGANIZATIONNAME, dg.DEPARTMENTGROUPNAME
```
- Mandatory Prompt:** A red callout points to the text "Year" in the SQL query's WHERE clause.
- Optional Prompt:** A red callout points to the text "[Account Type]" in the SQL query's WHERE clause.
- Mapping Pane:** Located at the bottom, it shows a table mapping columns to objects and forms:

Column	Object	Form	Type
1	ORGANIZATIONNAME	ID	Number
2	ORGANIZATIONNAME	DESC	Text
3	DEPARTMENTGROUPNAME	ID	Number
4	DEPARTMENTGROUPNAME	DESC	
5	Amount		







- + Page Header
- + Document Header
- + Detail Header
- + Detail
- + Detail Footer
- + Document Footer
- + Page Footer

Text	Panel Stack
Image	Filter Panel
Line	Table Control (Mobile)
Shape	HTML Container
Report	Selector
Grid	Widgets
Graph	Button

DOCUMENT STRUCTURE ? x

- Body
 - ab| Text84
 - Sales Revenue
 - Sale Performance
 - Company revenue
 - Product Sales
 - Customer analysis
 - SelfPanel

Layout 1 +

GROUPING: none

Select Report

Panel-0

Sale Performance

Panel stack

Panels

Sale Performance

- Sale Performance
- Company revenue
- Product Sales
- Customer analysis

DOCUMENT HOME | TOOLS | INSERT | DATA | GRID | GRAPH | FORMAT | ALIGN AND ORDER

DOCUMENT STRUCTURE

- Body
 - Text04
 - Sales Revenue
 - Sale Performance
 - Company revenue
 - Product Sales
 - Customer analysis
 - SelfPanel

GROUPING: Calendar Year

Select Report: Panel-0

Sale Performance

Graph

Dataset

Grid

Country Region Name	Calendar Quarter	Metrics	Total Sales
	<Calendar Quarter>		

REPORT HOME | TOOLS | DATA | GRID | FORMAT

REPORT OBJECTS

- Sales Territory Region
 - Total Sales

REPORT DETAILS

Report Filter: Empty Filter

Sales Territory Region	Metrics	Total Sales
Australia		10,655,336
Canada		16,355,770
Central Europe		7,909,009
France		
Germany		
North America		6,939,374
North America		16,084,943
Southeast		7,879,655
Southwest		24,184,610
United Kingdom		7,670,721

Drill

Filter on Selections

Links

Create Group

Create Calculation

sales category report





REPORT OBJECTS

? x

- ▶  Product Category
- ▶  Sales Territory Region
-  Total Sales

3 items found

REPORT OBJECTS

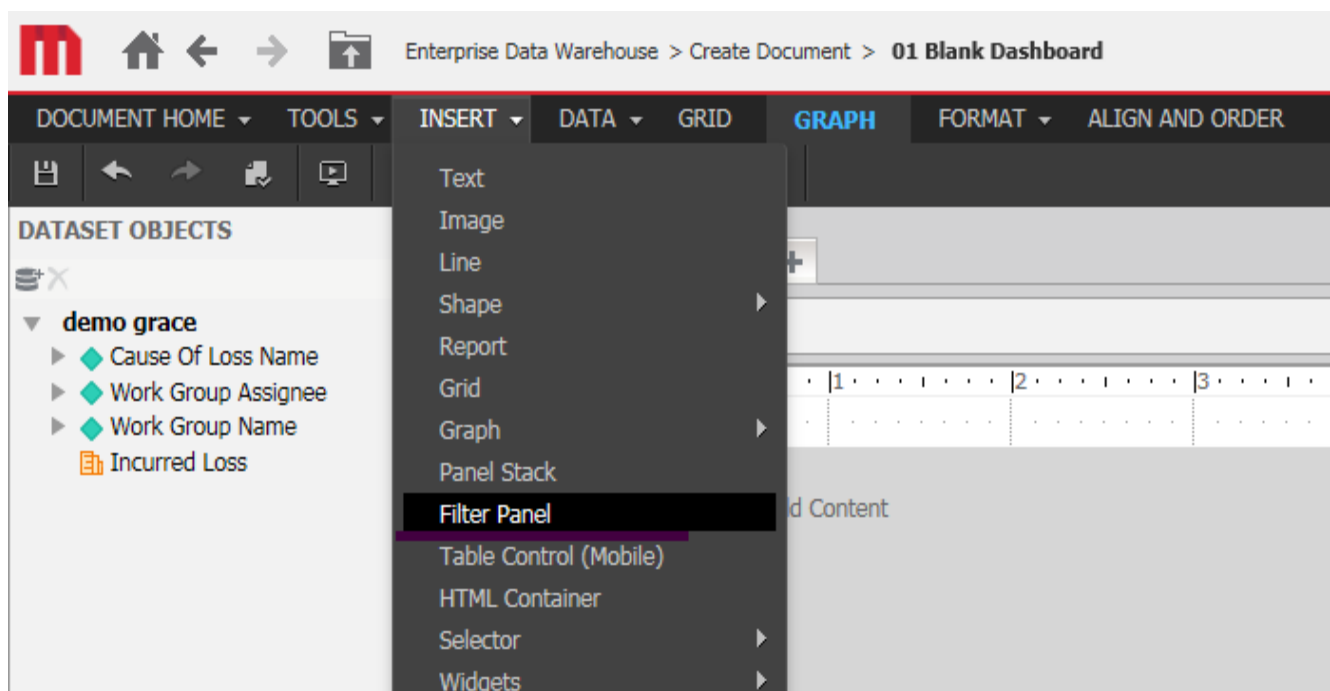
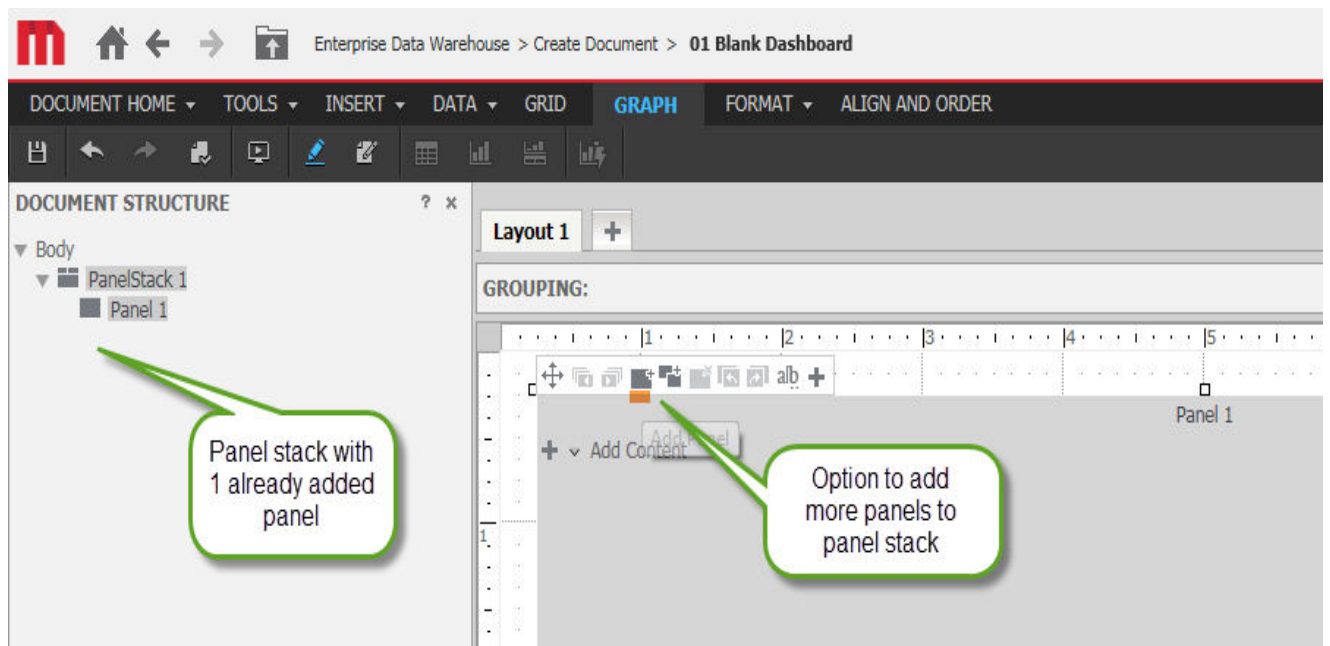
-  ALL OBJECTS
-  MDX OBJECTS
-  NOTES
-  RELATED REPORTS

REPORT DETAILS

Report Filter:
Empty Filter

Sales Territory Region	Product Category	Metrics	Total Sales
Australia	Accessories		162,638
	Bikes		10,175,871
	Clothing		113,176
Canada	Accessories		221,505
	Bikes		13,457,683
	Clothing		432,112
Central	Accessories		46,297
	Bikes		6,761,070
	Clothing		154,238
France	Accessories		111,439
	Bikes		6,114,241
	Clothing		155,127
Germany	Accessories		97,316
	Bikes		4,351,530
	Clothing		95,185
Northeast	Accessories		51,002
	Bikes		5,675,571

Chapter 4: Advanced Visualization Techniques



Panel48		Calendar Year	Product Category	Sales Territory Region	Metrics	Profit Marigin	Total Sales	Total profit	Total Cost	Total Order Quantit
Product Category (1 of 3) <input type="checkbox"/> (All) <input type="checkbox"/> Accessories <input checked="" type="checkbox"/> Bikes <input type="checkbox"/> Clothing Total Sales 114.9K - 5.7M 1.8M 7.4M Calendar Year (4) 2007		2007	Bikes	Australia		29.97%	3,628,435	1,087,503	2,540,932	2,540,932
				Canada		2.48%	4,889,111	121,491	4,767,620	5,690,202
				Central		(0.28%)	2,496,139	(7,095)	2,503,234	3,040,329
				France		10.72%	2,782,409	298,198	2,484,211	2,790,407
				Germany		16.36%	1,844,123	301,640	1,542,483	1,660,123
				Northeast		(1.03%)	2,296,104	(23,631)	2,319,735	2,850,435
				Northwest		7.73%	4,689,910	362,586	4,327,324	5,030,910
				Southeast		(1.55%)	1,970,437	(30,566)	2,001,003	2,460,437
				United Kingdom		14.71%	2,949,476	433,815	2,515,661	2,850,476

- Drop-down
- Slider
- Check Boxes
- Radio Buttons
- Button Bar
- Listbox
- Link Bar
- Search Box
- Calendar
- Metric Slider
- Metric Qualification
- Action Selector Button
- Action Selector Link

DATASET OBJECTS

- demo grace
 - Cause Of Loss Name
 - Work Group Assignee
 - Work Group Name
 - Incurred Loss

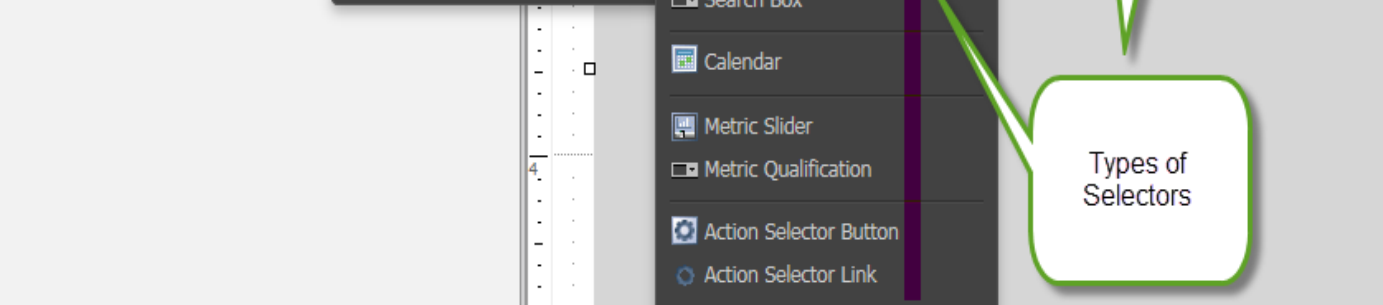
- Text
- Image
- Line
- Shape
- Report
- Grid
- Graph
- Panel Stack
- Filter Panel
- Table Control (Mobile)
- HTML Container
- Selector
- Widgets
- Button
- Auto-text
- Insert Section Above
- Insert Section Below
- Layout...

Insert selector menu

- Drop-down
- Slider
- Check Boxes
- Radio Buttons
- Button Bar
- Listbox
- Link Bar
- Search Box
- Calendar
- Metric Slider
- Metric Qualification
- Action Selector Button
- Action Selector Link

Selected section, where selector needs to be added.

Types of Selectors



Properties and Formatting ? x

Properties

- General
- Layout
- Selector**
- Advanced

Format

- Color and Lines
- Font
- Alignment
- Effects
- Theme

Selector

Action Type: Select Attribute Element Source: - none -

Displayed for: Select Attribute Element Separator: Colon

Targets

Available: use for dashboard PanelStack 1 Selector56 Selector58

Selected: (none)

Apply selections as a filter

Update target filters when current selection changes: Do not update

Advanced

- Automatically update when there is no data for the current selection
- Show option for Total
- Show option for All

Alias:

Current State: Unset (no filter) Number of Elements:

Selection Type: Include

Apply OK Cancel

Mountain Bikes		(All)
		(All)
		Mountain-100 Black, 38
		Mountain-100 Black, 42
		Mountain-100 Black, 44
		Mountain-100 Black, 48
		Mountain-100 Silver, 38
		Mountain-100 Silver, 42
		Mountain-100 Silver, 44
		Mountain-100 Silver, 48
		Mountain-200 Black, 38
		Mountain-200 Black, 42
		Mountain-200 Black, 46
		Mountain-200 Silver, 38
		Mountain-200 Silver, 42
		Mountain-200 Silver, 46
		Mountain-400-W Silver, 38

Product Name	Product Subcategory	M
Mountain-100 Black, 38	Mountain Bikes	
Mountain-100 Black, 42	Mountain Bikes	
Mountain-100 Black, 44	Mountain Bikes	
Mountain-100 Black, 48	Mountain Bikes	
Mountain-100 Silver, 38	Mountain Bikes	
Mountain-100 Silver, 42	Mountain Bikes	
Mountain-100 Silver, 44	Mountain Bikes	

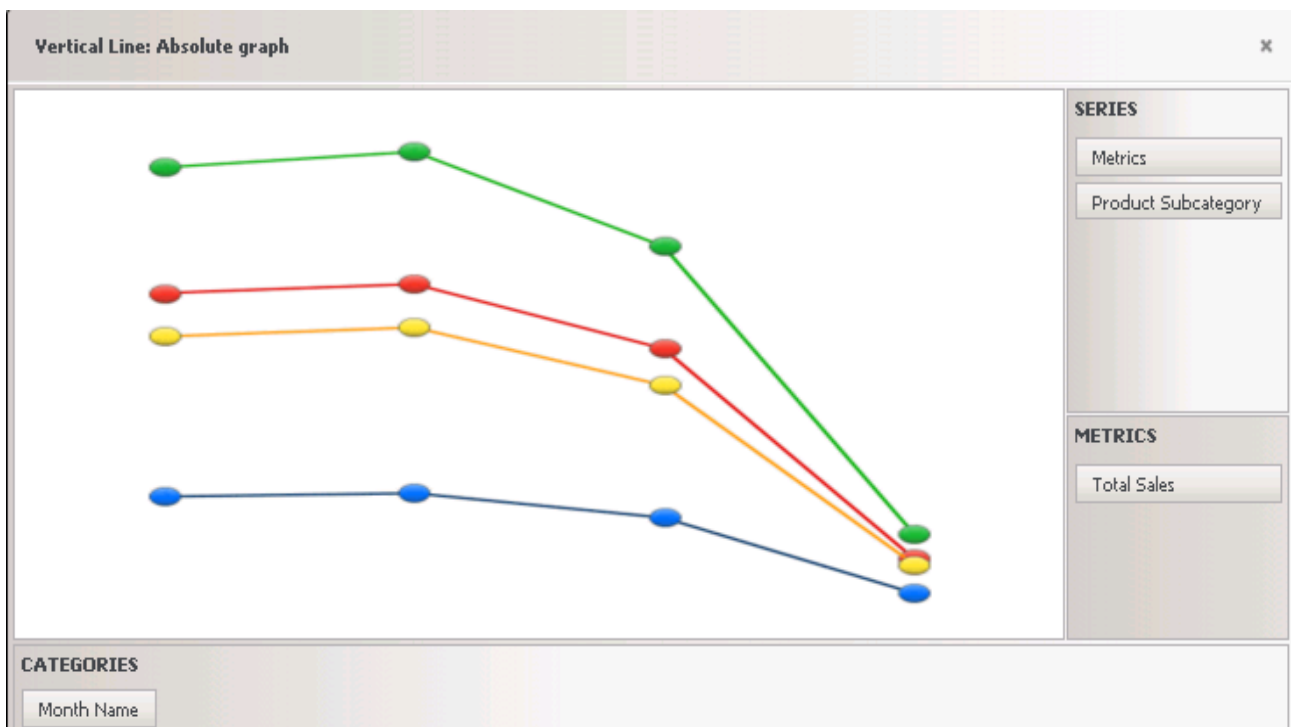
- Vertical area
- Horizontal area
- Vertical bar
- Horizontal bar
- Vertical line
- Horizontal line
- Pie
- Scatter
- Polar
- Radar
- Bubble
- HiLo... Stock
- Histogram
- 3D risers
- 3D floating
- 3D connect group
- 3D connect series
- 3D surface
- 3D scatter
- Gauge
- Funnel
- Pareto
- Box Plot
- Gantt
- Combination
- Budgeting

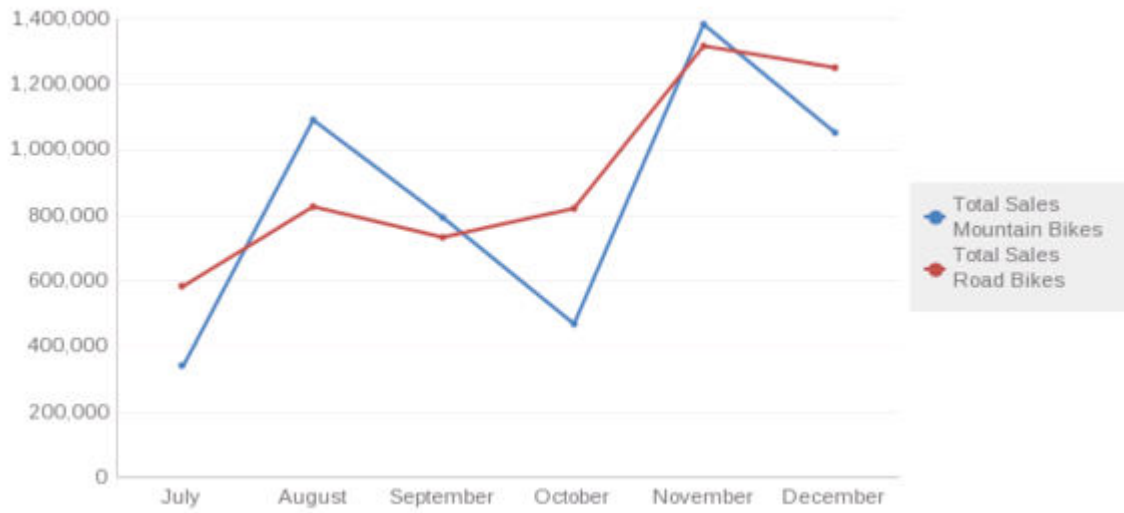
GRAPH **FORMAT** ▾ **ALIGN AND ORDER**

Vertical bar ▾ Bipolar absolute ▾ [Icons]

3:

1





Budgeting x

SERIES

Metrics

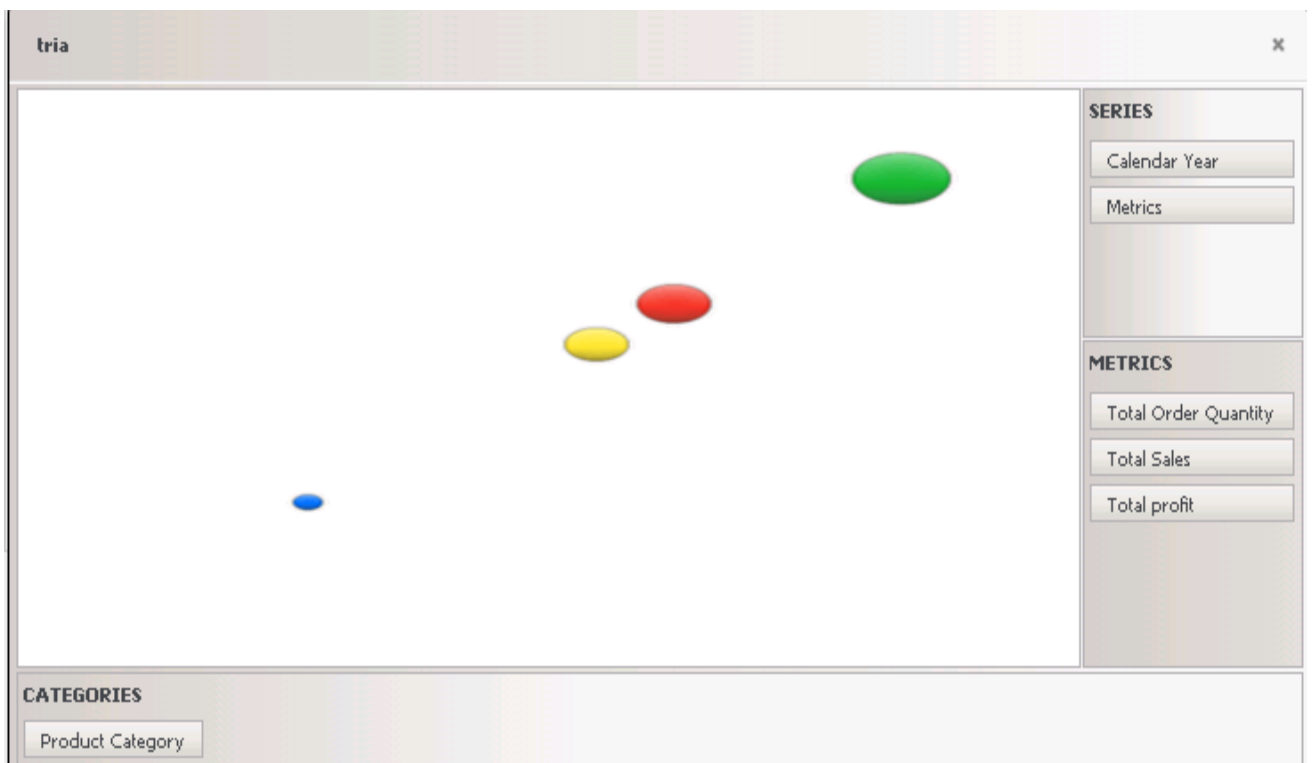
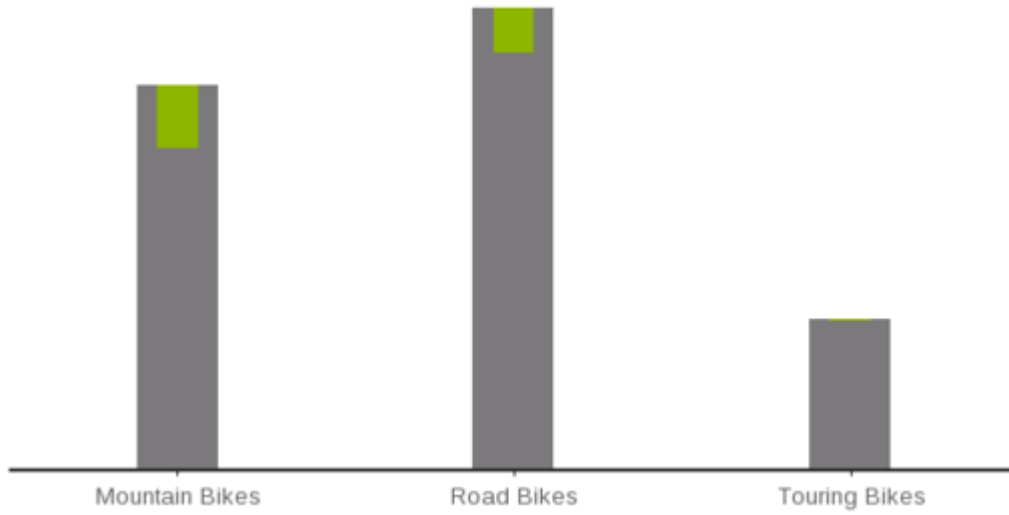
CATEGORIES

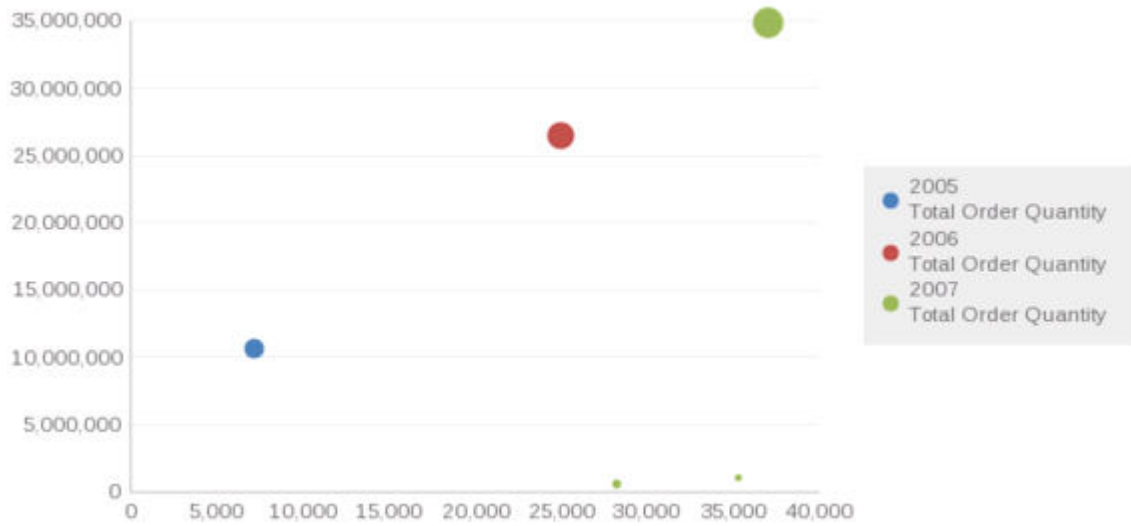
Product Subcategory

METRICS

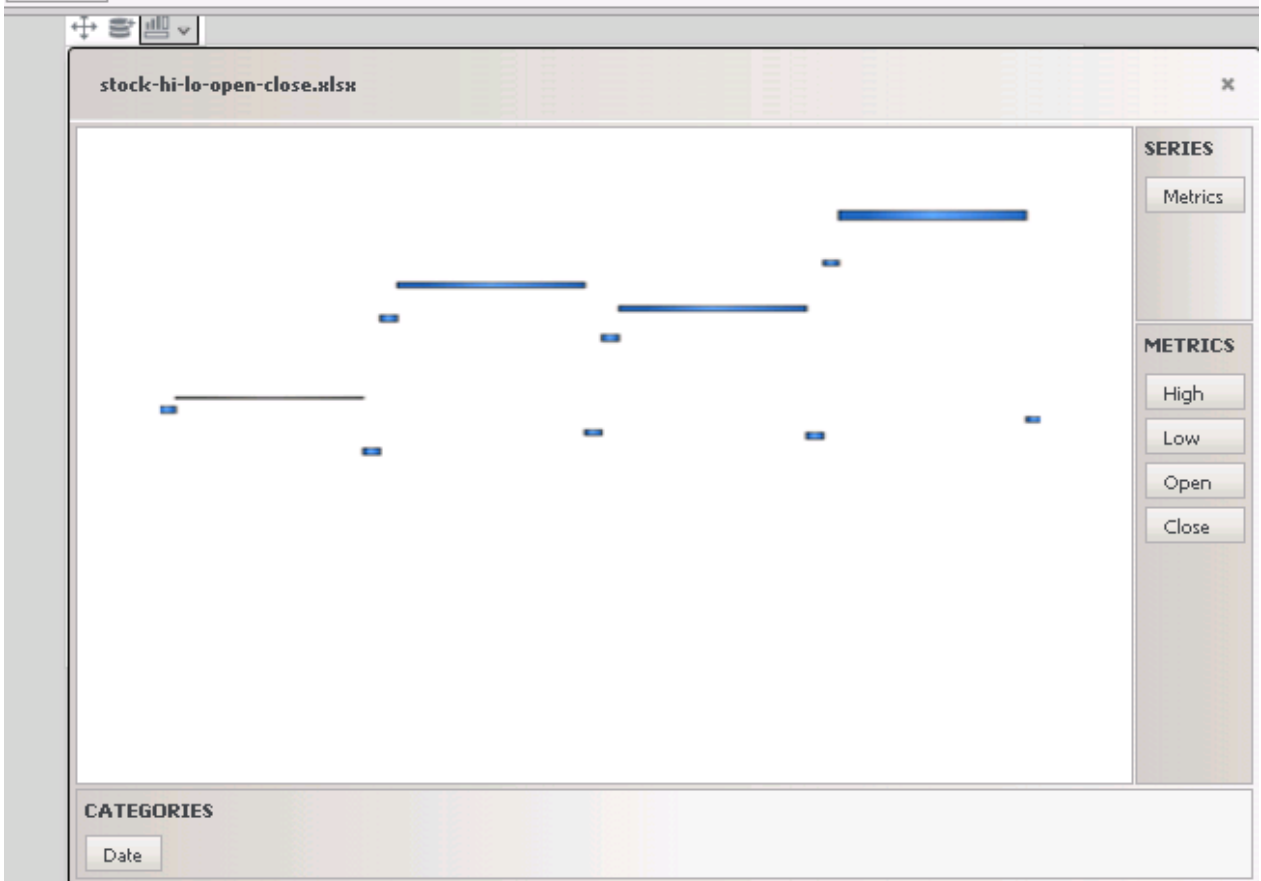
Expected Sales

Actual Sales

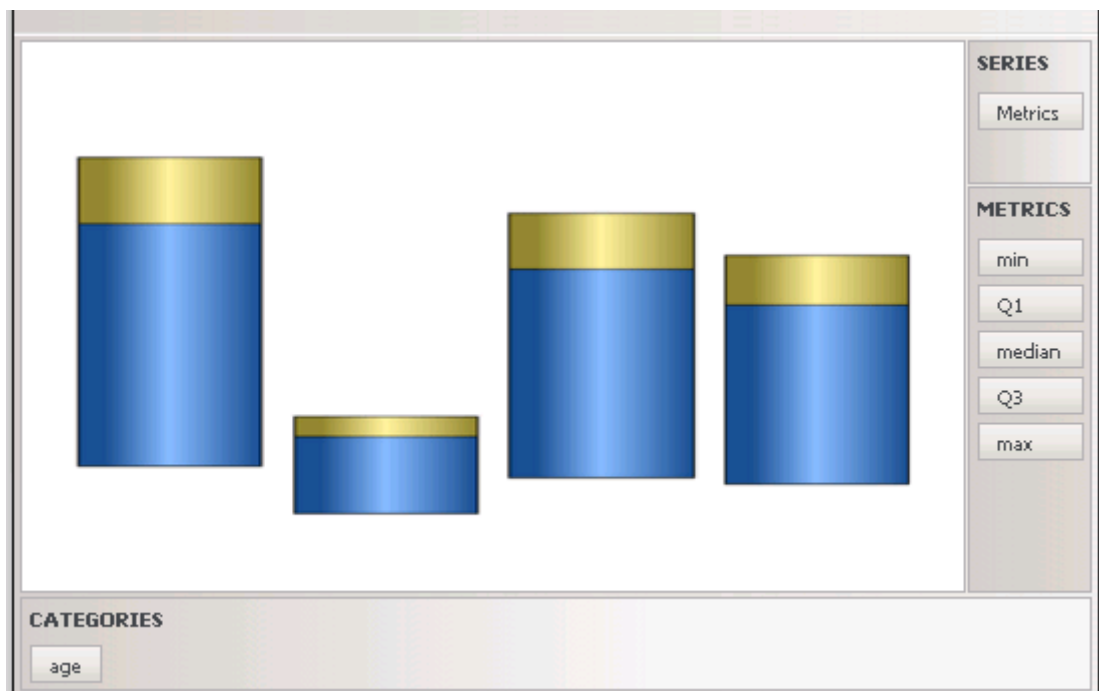
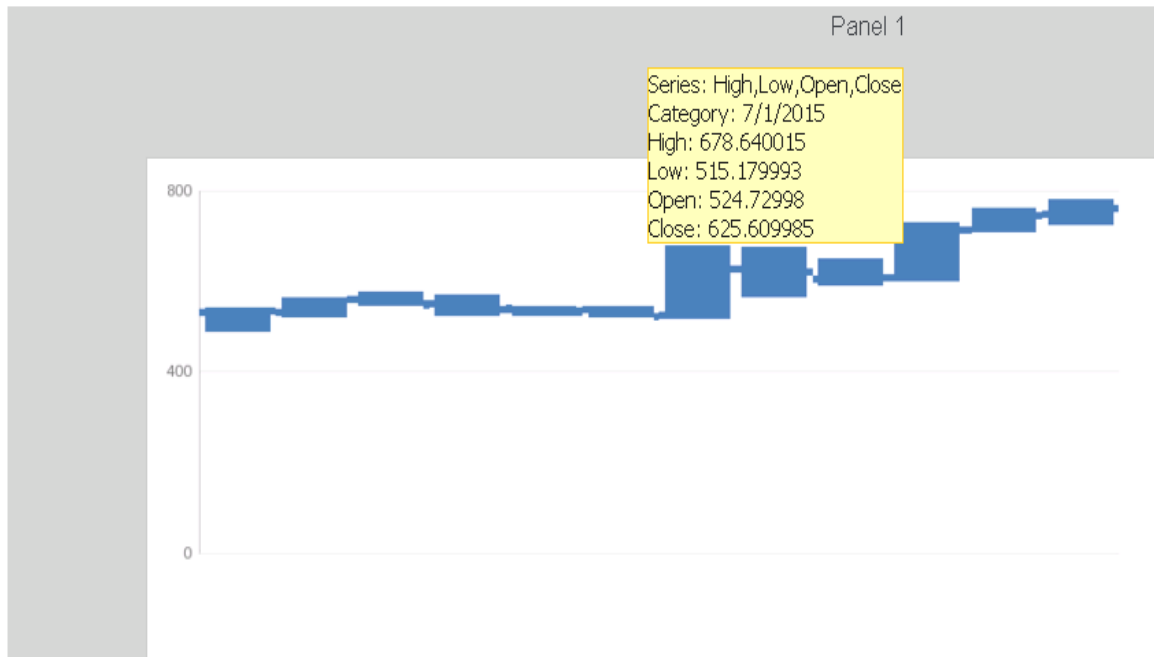


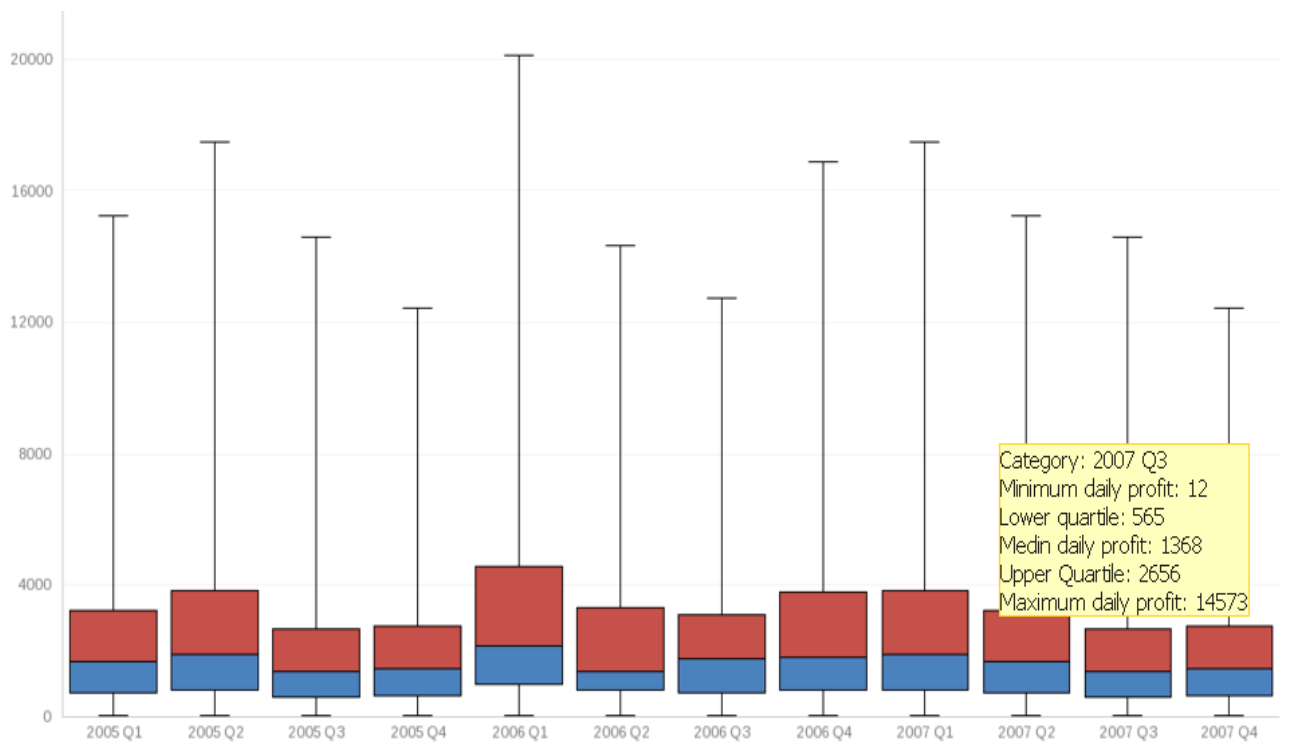
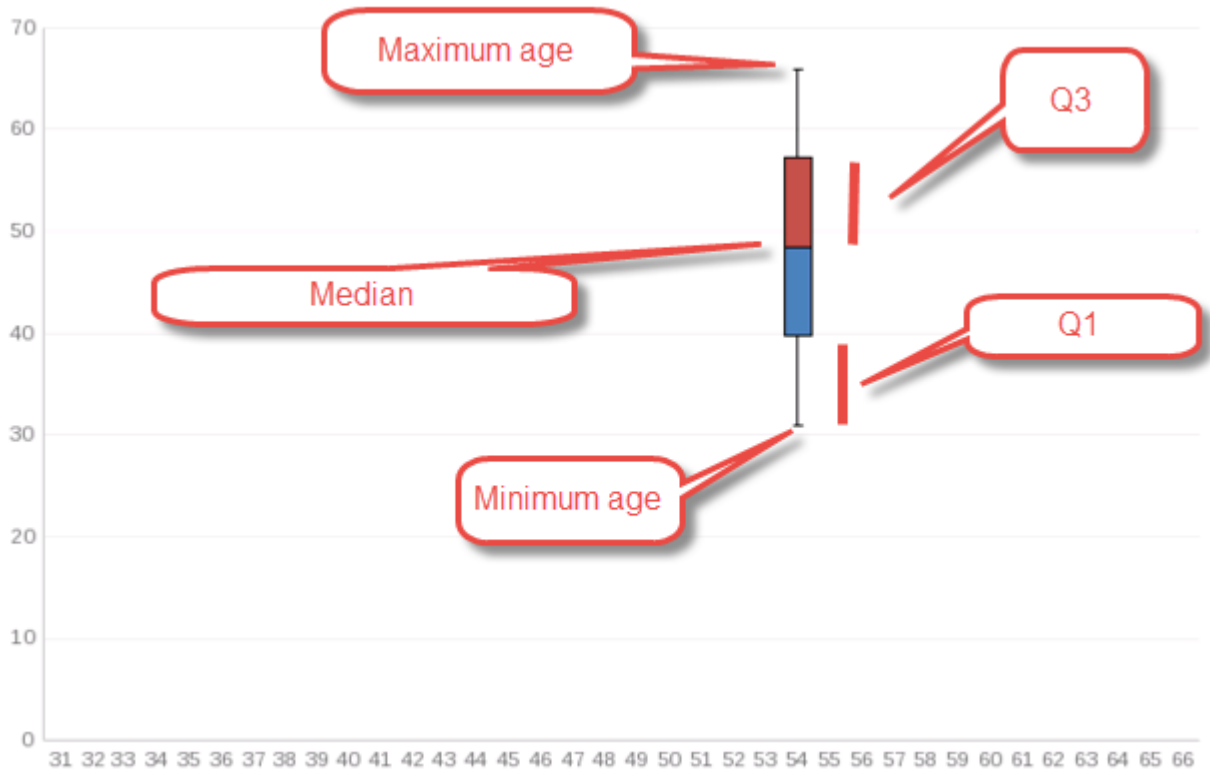


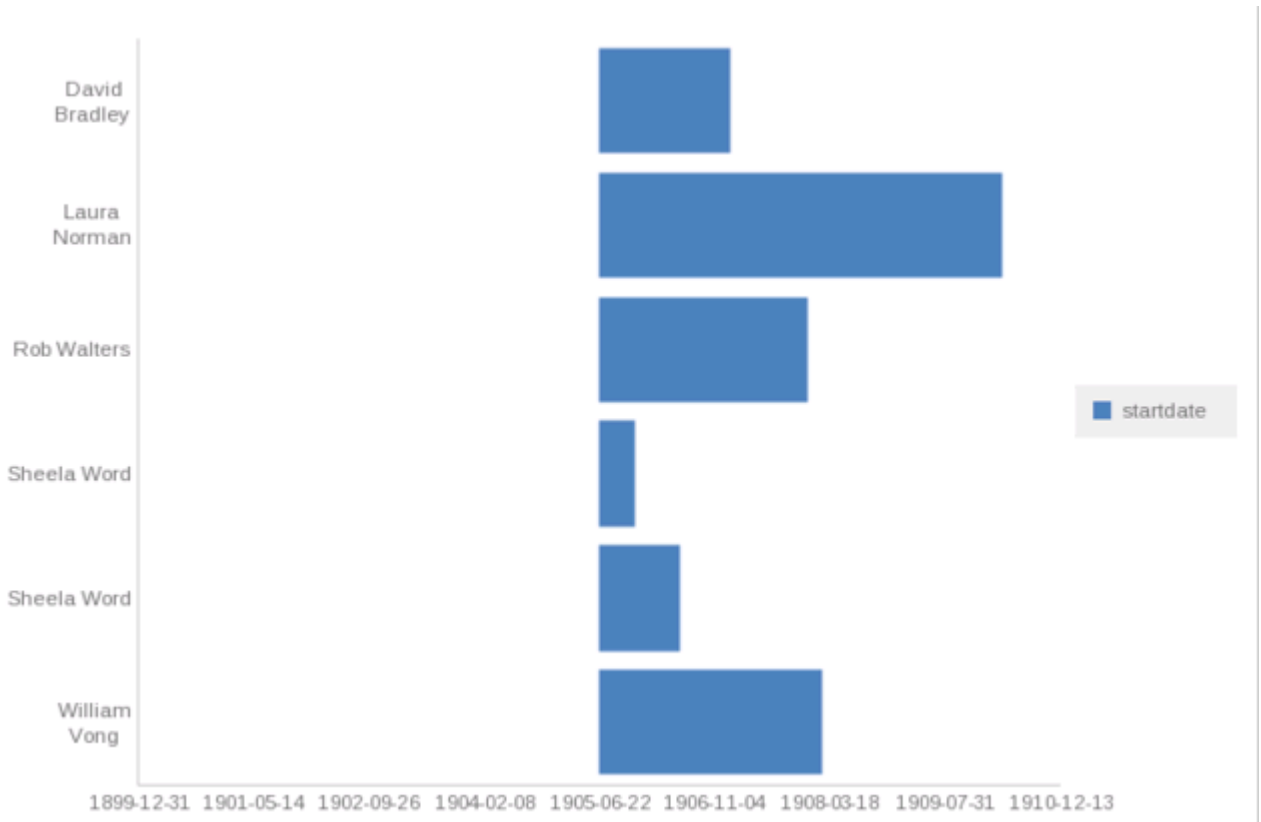
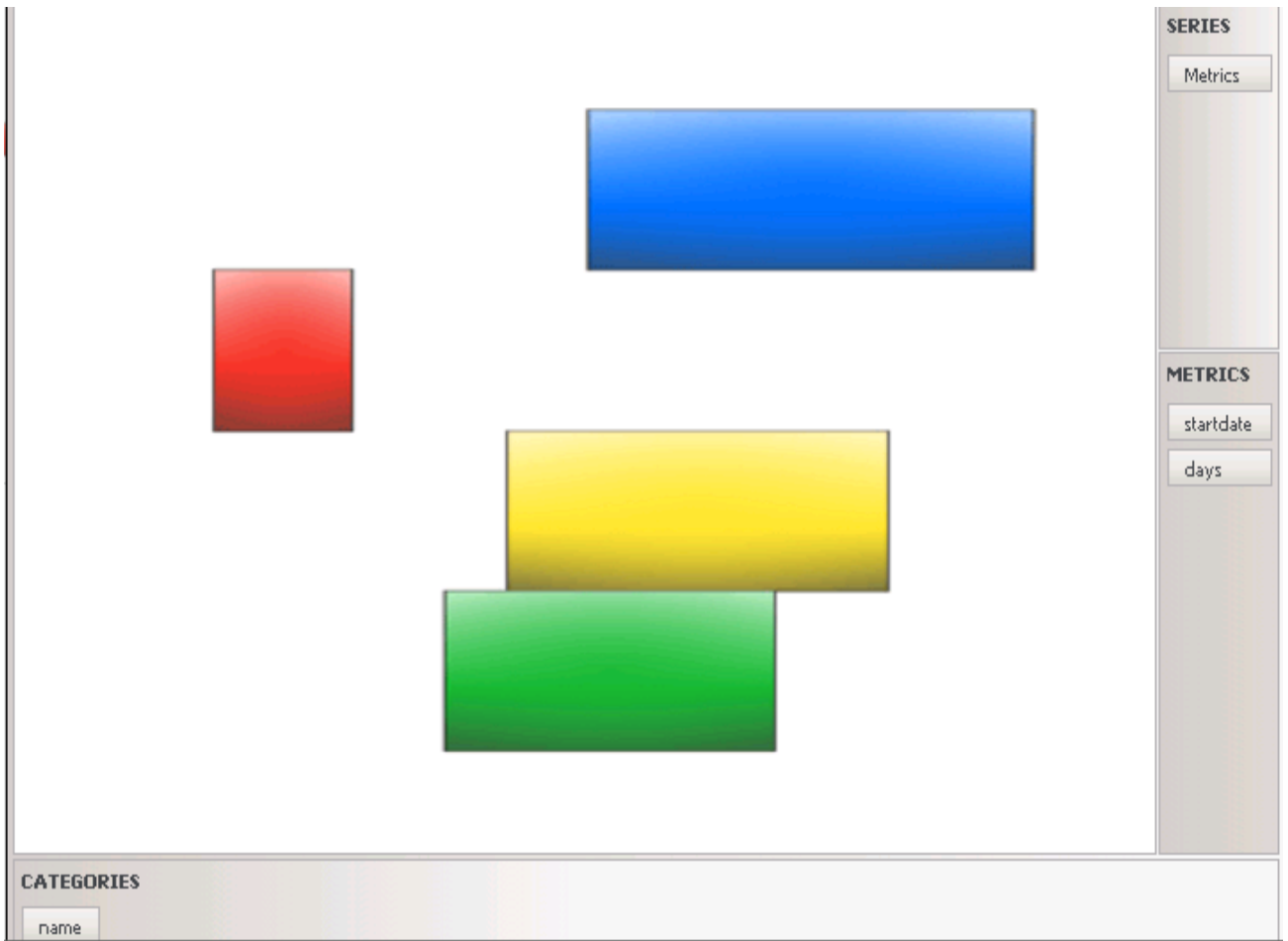
Company

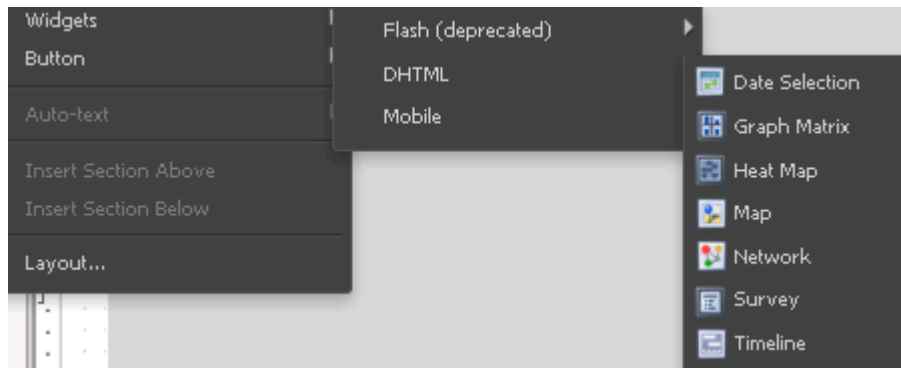


Company:



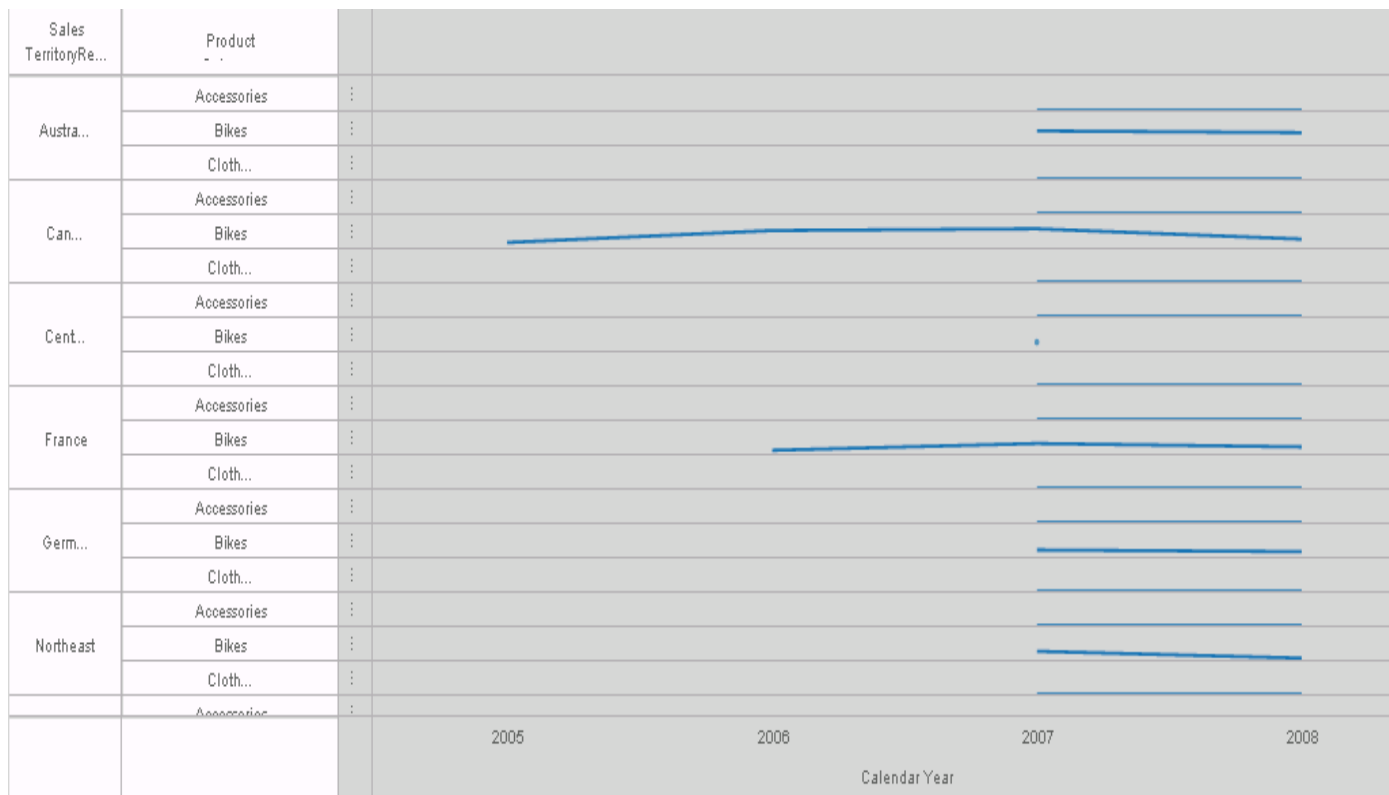


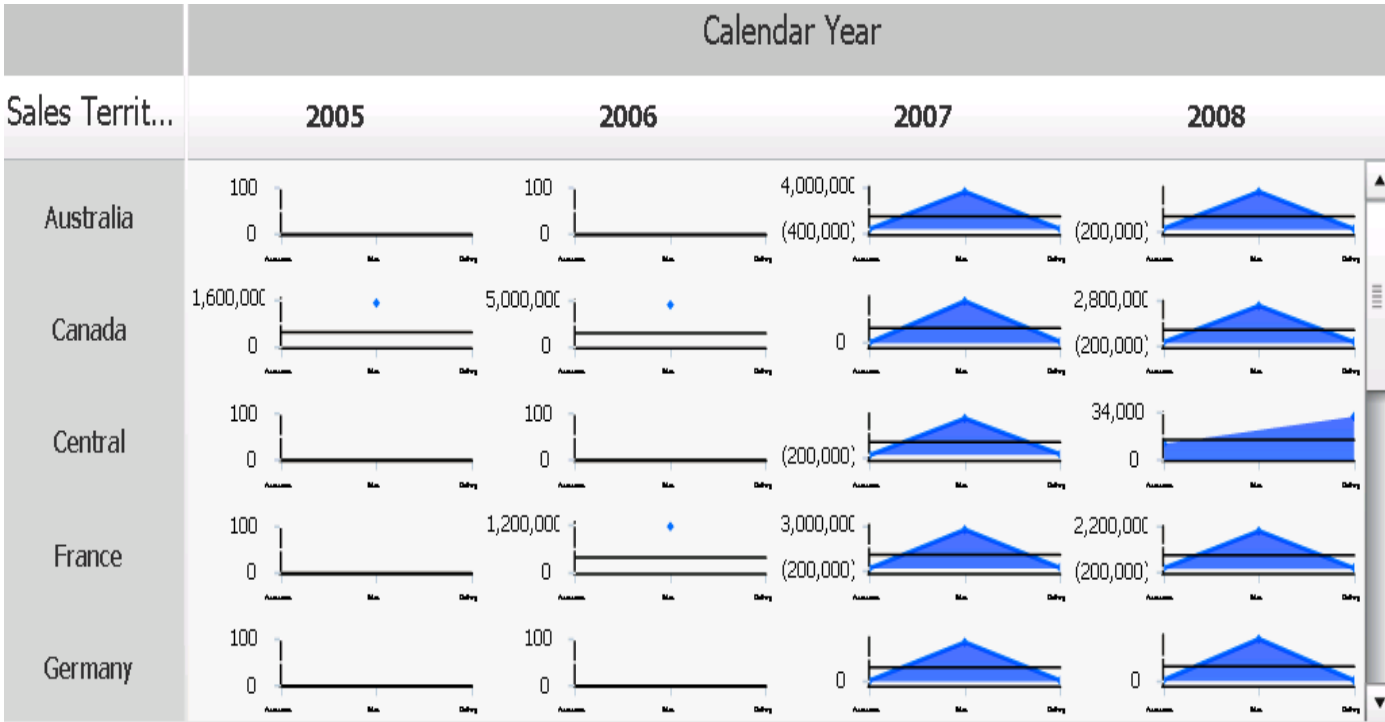


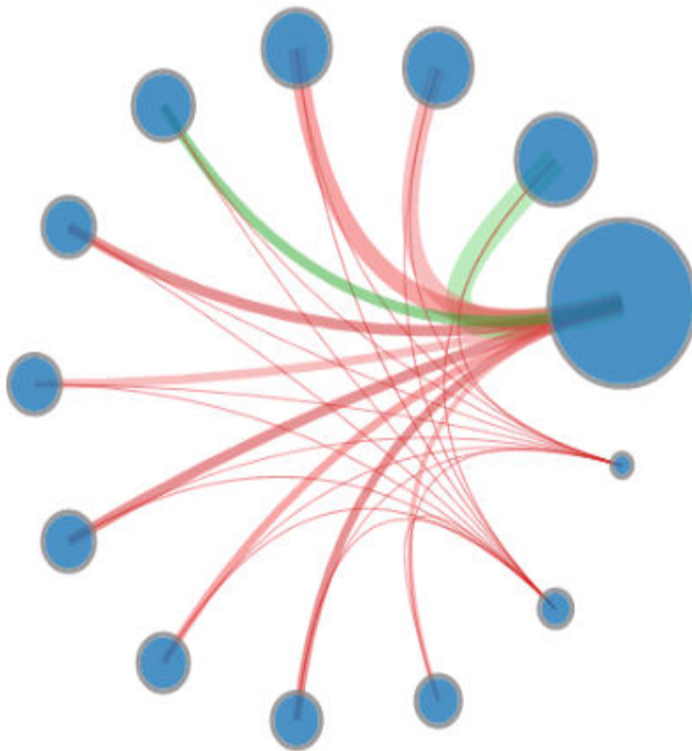
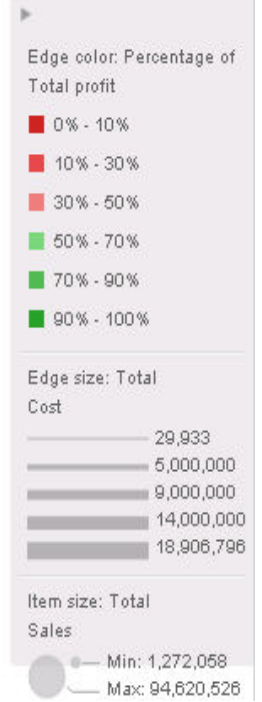
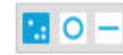
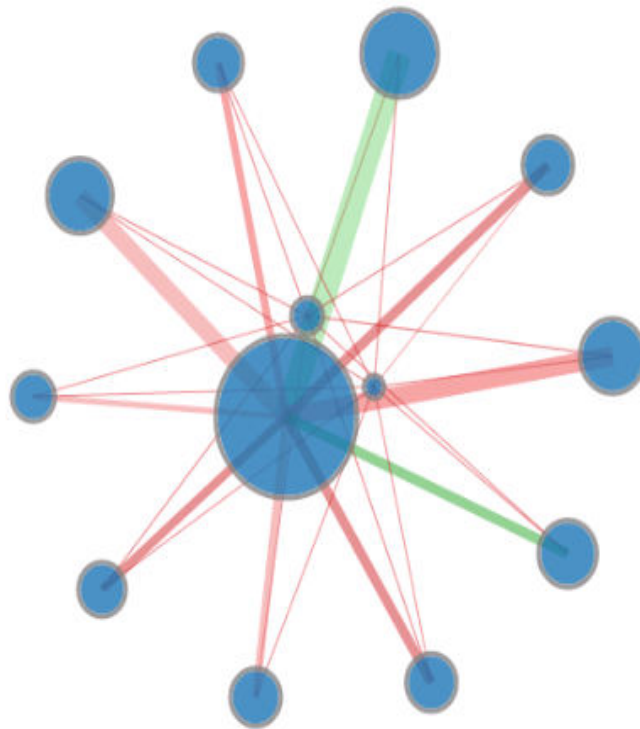


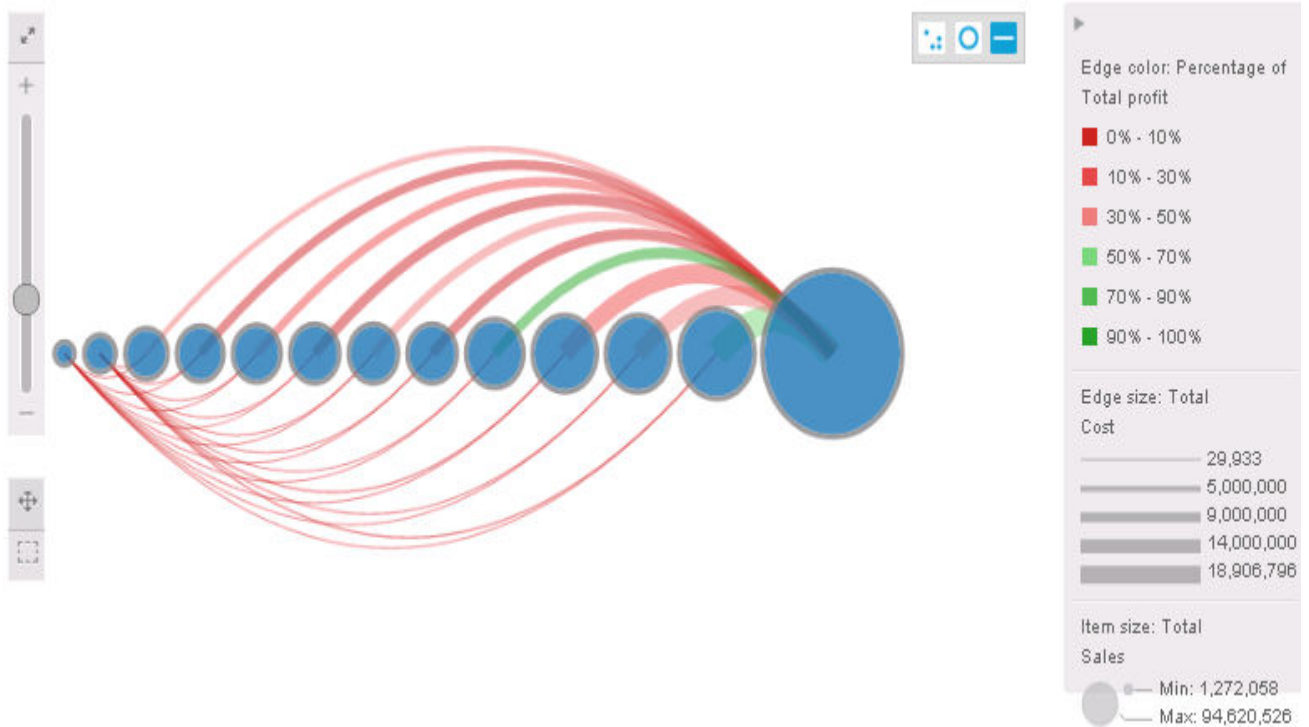
OrderDate	Quarter	Region	Rep	Item	Units	Unit Cost	Total
12/4/15	4	Central	Jardine	Binder	94	19.99	1879.06

DECEMBER 2015						
M	T	W	T	F	S	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			









	A	B	C	D	E	F	G	H
1	surveyID	questionID	questionTitle	questionType	answerID	answerTitle	answerValue	currentAnswer
2	1	1	First Name	1	19	NULL	NULL	NULL
3	1	2	Last Name	1	19	NULL	NULL	NULL
4	1	3	Email	1	19	NULL	NULL	NULL
5	1	4	Address	1	19	NULL	NULL	NULL

```

Begin Transaction
insert into Tablename(columnname, columnname)
values ([Input0],[Input1]);
End Transaction

```

Input object, value inserted by user

Tablename and columnname of table where response needs to be added

Column	Object	Form	Type	Required
0		ID	Number	Yes
1		ID	Number	Yes

1. First Name

2. Last Name

3. Email

4. Address

5. Your driving experience

- Less than 1 year
- 1-3 years
- 4-10 years

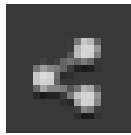
Submit

start

0

● Rob Walters

● David Bradley



Connect to Your Data

All Connect Live

File From Disk File From URL Database Hadoop OLAP Public Data

Search Engine Indices Clipboard BI Tools Sample Files Salesforce Reports Google Analytics

Google BigQuery Google Drive Dropbox Facebook Twitter Suggest a Data Source

A screenshot of a software window titled "Connect to Your Data". The window has a title bar with a settings gear, a question mark, and a close button. Below the title bar, there are two tabs: "All" (selected) and "Connect Live". The main area is a grid of 24 data source categories, each with a colored icon and a text label. The categories are: File From Disk (green), File From URL (green), Database (blue), Hadoop (white), OLAP (blue), Public Data (white), Search Engine Indices (orange), Clipboard (orange), BI Tools (green), Sample Files (red), Salesforce Reports (white), Google Analytics (white), Google BigQuery (white), Google Drive (white), Dropbox (white), Facebook (white), Twitter (white), and Suggest a Data Source (green).

FILE VIEW FORMAT

DASHBOARD DATABASE...

All

Add External Data
Create New Report
Add Existing Dataset
Browse All Objects

Add Data
Replace All Datasets
Help

External Data...
New Report...
Existing Dataset...

Rows

Columns

A screenshot of a dashboard interface. At the top is a dark menu bar with "FILE VIEW FORMAT" and several icons. Below the menu bar, there's a section titled "DASHBOARD DATABASE..." with a dropdown arrow. To the left, there's a sidebar with a search box and a list of links: "Add External Data", "Create New Report", "Add Existing Dataset", and "Browse All Objects". A context menu is open over the dashboard, showing options: "Add Data", "Replace All Datasets", and "Help". A sub-menu is also open, showing "External Data...", "New Report...", and "Existing Dataset...". Below the menu, there's a table structure with "Rows" and "Columns" labels and empty input boxes.



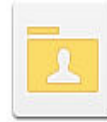
Create

- New Dashboard
- New Report
- New Document
- New Custom Group
- New Metric
- New Prompt
- New Filter
- Add External Data

Browse



Shared Reports



My Reports



History List

Analyze



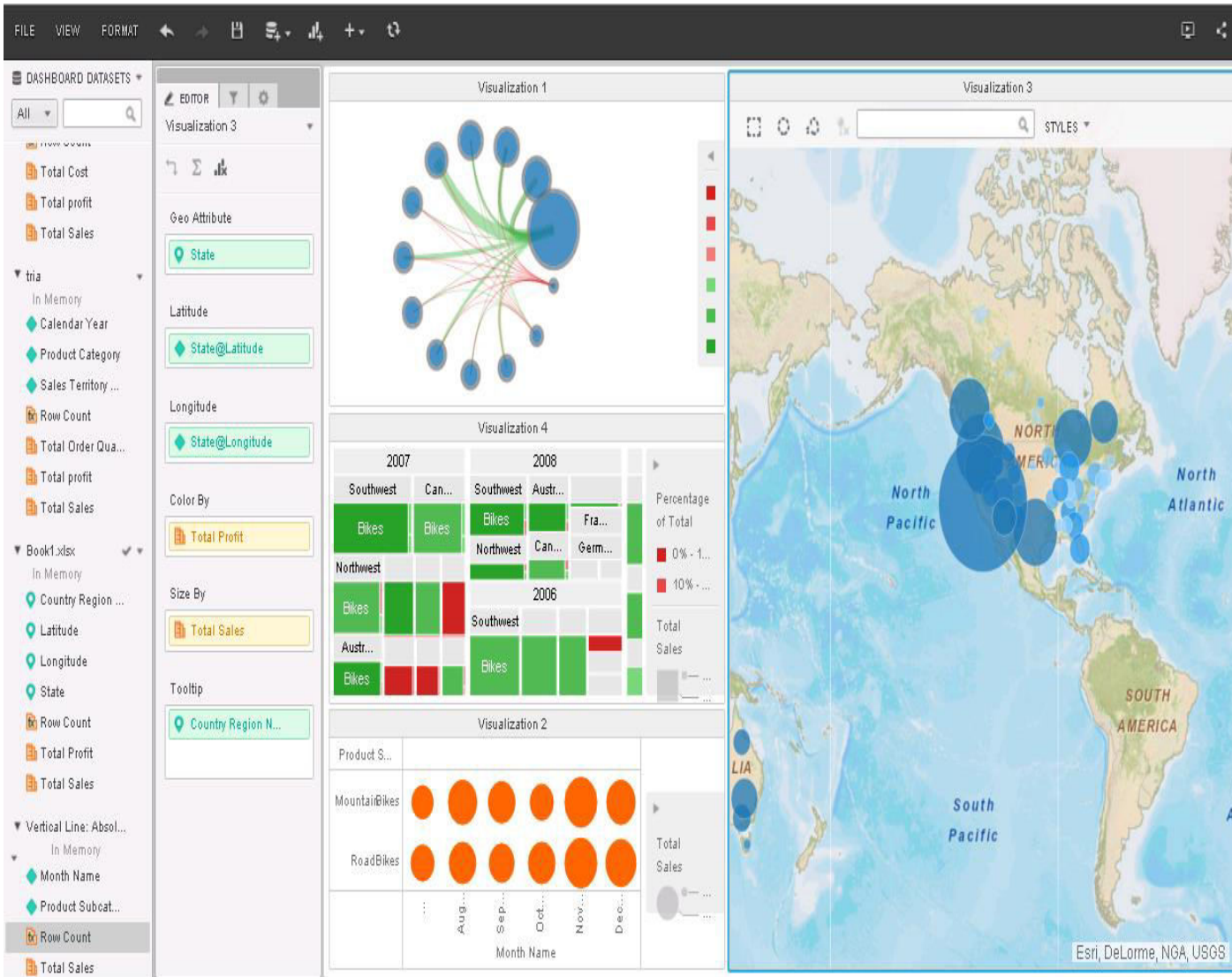
Create Dashboard

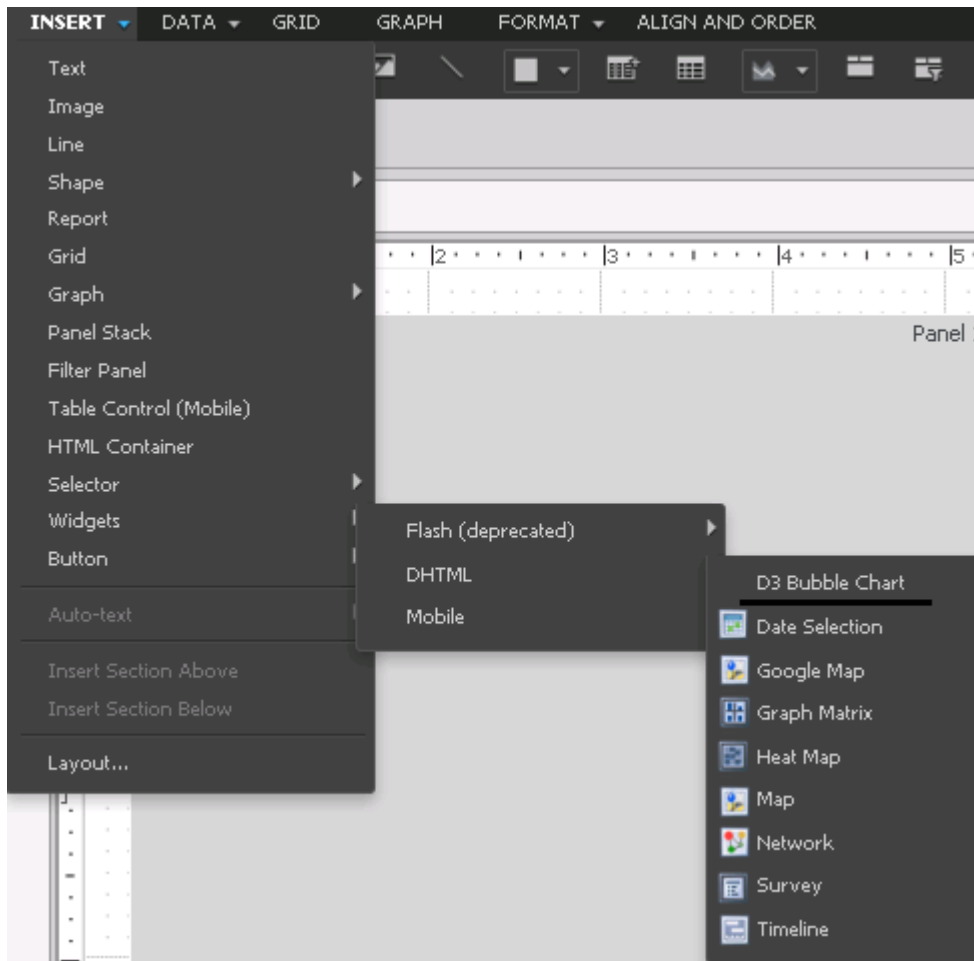


Add External Data



Upload MicroStrategy File





/usr/local/tomcat7/webapps/MicroStrategy/WEB-INF/xml/config

Name	Size	Changed	Rights	Owner
..		1/26/2016 3:10:27 PM	rwxr-xr-x	root
adminErrors.xml	11 KB	9/24/2015 6:02:52 PM	rw-r--r--	root
advancedColorPicker.xml	9 KB	9/24/2015 6:02:50 PM	rw-r--r--	root
advancedThresholdEditorToolbar.xml	10 KB	9/24/2015 6:02:50 PM	rw-r--r--	root
advFontColorPicker.xml	10 KB	9/24/2015 6:02:50 PM	rw-r--r--	root
alertsEditorToolbar.xml	4 KB	9/24/2015 6:02:52 PM	rw-r--r--	root
allBorderStylesPicker.xml	2 KB	9/24/2015 6:02:50 PM	rw-r--r--	root
allObjectBrowserContextMenu.xml	3 KB	9/24/2015 6:02:50 PM	rw-r--r--	root
beanFactoryConfig.xml	1 KB	9/24/2015 6:02:50 PM	rw-r--r--	root
blockColorPicker.xml	8 KB	9/24/2015 6:02:52 PM	rw-r--r--	root
borderStylesPicker.xml	2 KB	9/24/2015 6:02:50 PM	rw-r--r--	root
browserSettings.xml	4 KB	9/24/2015 6:02:48 PM	rw-r--r--	root
colorPicker.xml	1 KB	9/24/2015 6:02:48 PM	rw-r--r--	root
colorPickerShortcutList.xml	10 KB	9/24/2015 6:02:52 PM	rw-r--r--	root
colorThemes.xml	1 KB	9/24/2015 6:02:52 PM	rw-r--r--	root
controlLocalDataMenu.xml	3 KB	9/24/2015 6:02:52 PM	rw-r--r--	root
dataExplorerContextMenu.xml	3 KB	9/24/2015 6:02:50 PM	rw-r--r--	root
datePicker.xml	45 KB	9/24/2015 6:02:50 PM	rw-r--r--	root
derivedElementsEditorToolbar.xml	4 KB	9/24/2015 6:02:50 PM	rw-r--r--	root
derivedElmtGroupPicker.xml	1 KB	9/24/2015 6:02:52 PM	rw-r--r--	root
detailsToolbar.xml	1 KB	9/24/2015 6:02:52 PM	rw-r--r--	root
displayFormatPicker.xml	1 KB	9/24/2015 6:02:50 PM	rw-r--r--	root
documentMenu.xml	8 KB	9/24/2015 6:02:48 PM	rw-r--r--	root
documentStandardToolbar.xml	4 KB	9/24/2015 6:02:50 PM	rw-r--r--	root
drillLinkEditorToolbar.xml	3 KB	9/24/2015 6:02:52 PM	rw-r--r--	root
EditableObjectFrameMenu.xml	1 KB	9/24/2015 6:02:50 PM	rw-r--r--	root
errors.xml	26 KB	10/23/2015 9:09:00 AM	rw-r--r--	root
esriConfig.xml	3 KB	2/13/2016 1:11:31 AM	rw-r--r--	root
events.xml	208 KB	11/10/2015 7:01:14 PM	rw-r--r--	root

```

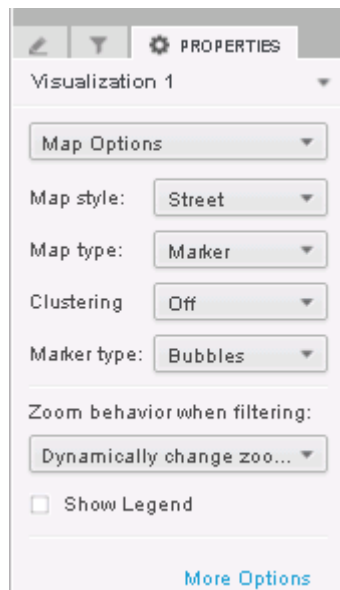
<ec>
  <!-- The following nodes are used for on-premises map integration -->
  <bms>
    <bm key="default"> </bm>
  </bms>
  <pjs>
  </pjs>
  <!-- End of nodes used for on-premises map integration -->

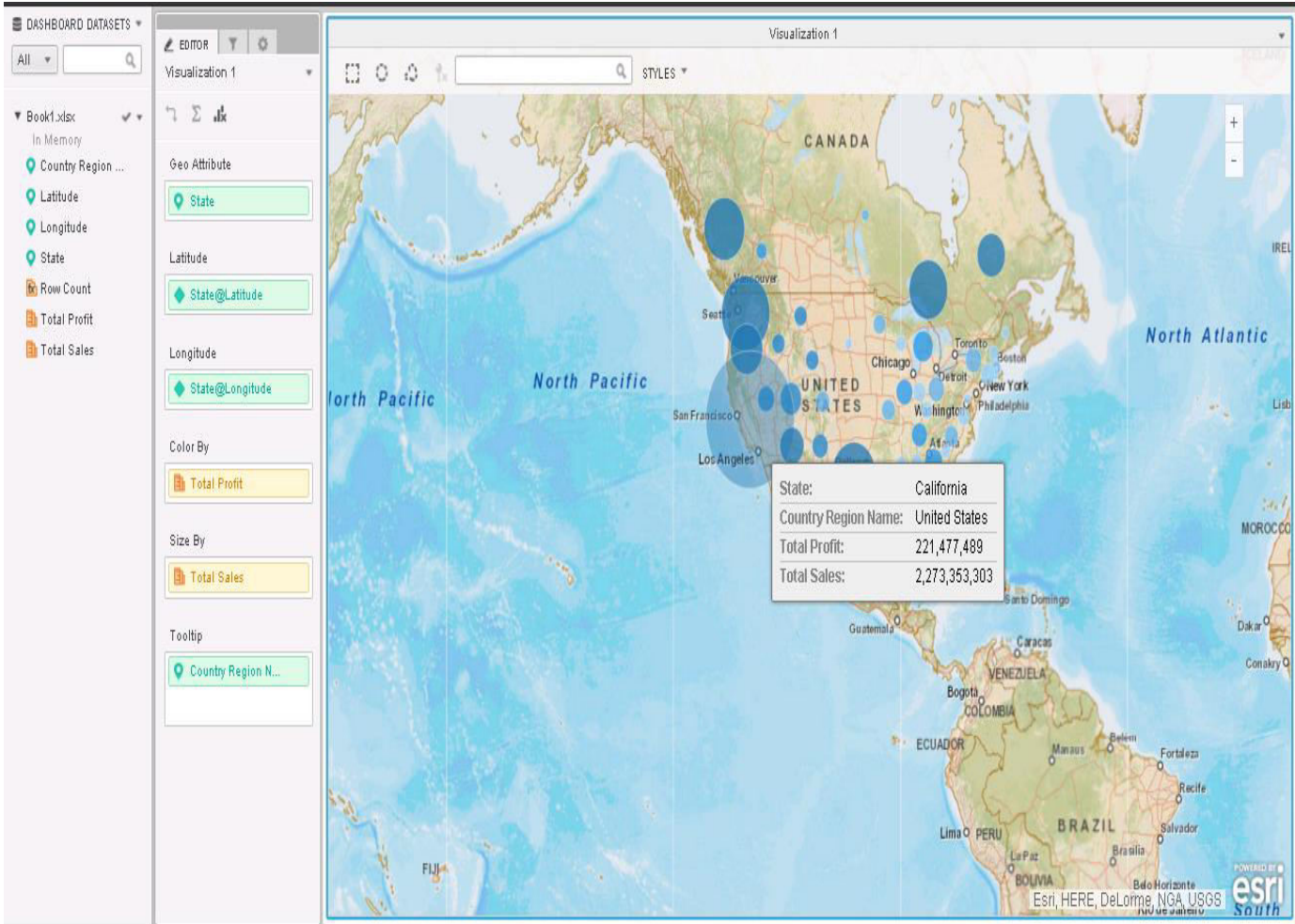
  <!-- The following nodes are used for cloud-based map integration -->

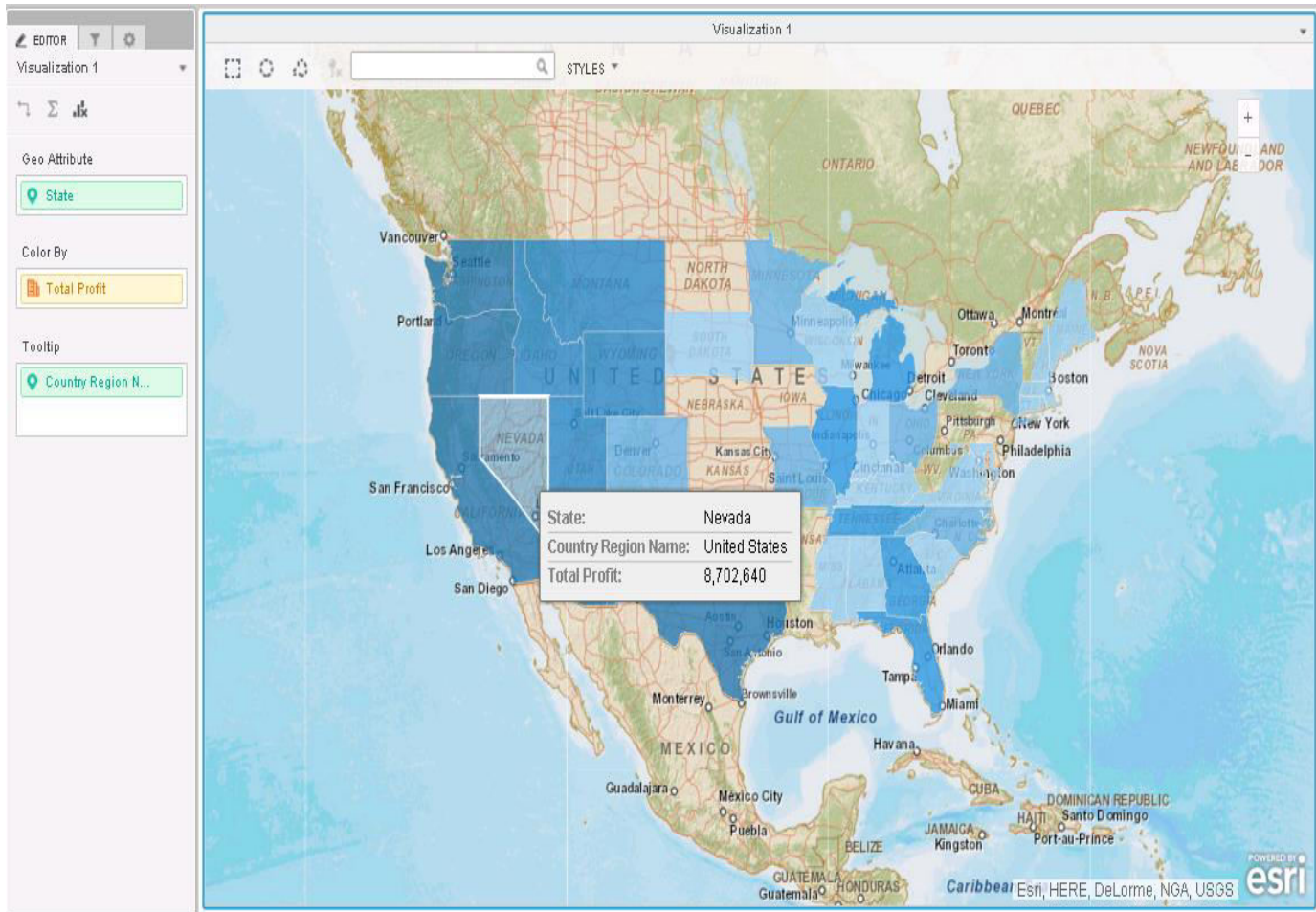
  <!-- Please insert keys obtained from MicroStrategy Map key from Technical Support in apps node -->
  <apps>
  ADD KEY HERE|
  </apps>

  <layers>
    <layer id="1"
      title="US-States"
      ml="http://services.arcgis.com/P3ePLMys2RVChkJx/arcgis/rest/services/USA_States_Generalized/FeatureServer/0" />
    <layer id="2"
      title="US-Zipcodes"
      ml="http://services.arcgis.com/P3ePLMys2RVChkJx/arcgis/rest/services/USA_ZIP_Codes/FeatureServer/0" />
    <layer id="3"
      title="US-Counties"
      ml="http://services.arcgis.com/P3ePLMys2RVChkJx/arcgis/rest/services/USA_Counties_Generalized/FeatureServer/0" />
    <layer id="4"
      title="world-Countries Detailed"
      ml="http://services.arcgis.com/P3ePLMys2RVChkJx/arcgis/rest/services/world_Countries/FeatureServer/0" />
    <layer id="5"
      title="world-Countries Generalized"
      ml="http://services.arcgis.com/P3ePLMys2RVChkJx/arcgis/rest/services/world_Countries_(Generalized)/FeatureServer/0" />
    <layer id="6"
      title="world-Admin-Divisions"
      ml="http://services.arcgis.com/P3ePLMys2RVChkJx/arcgis/rest/services/world_Administrative_Divisions/FeatureServer/0" />

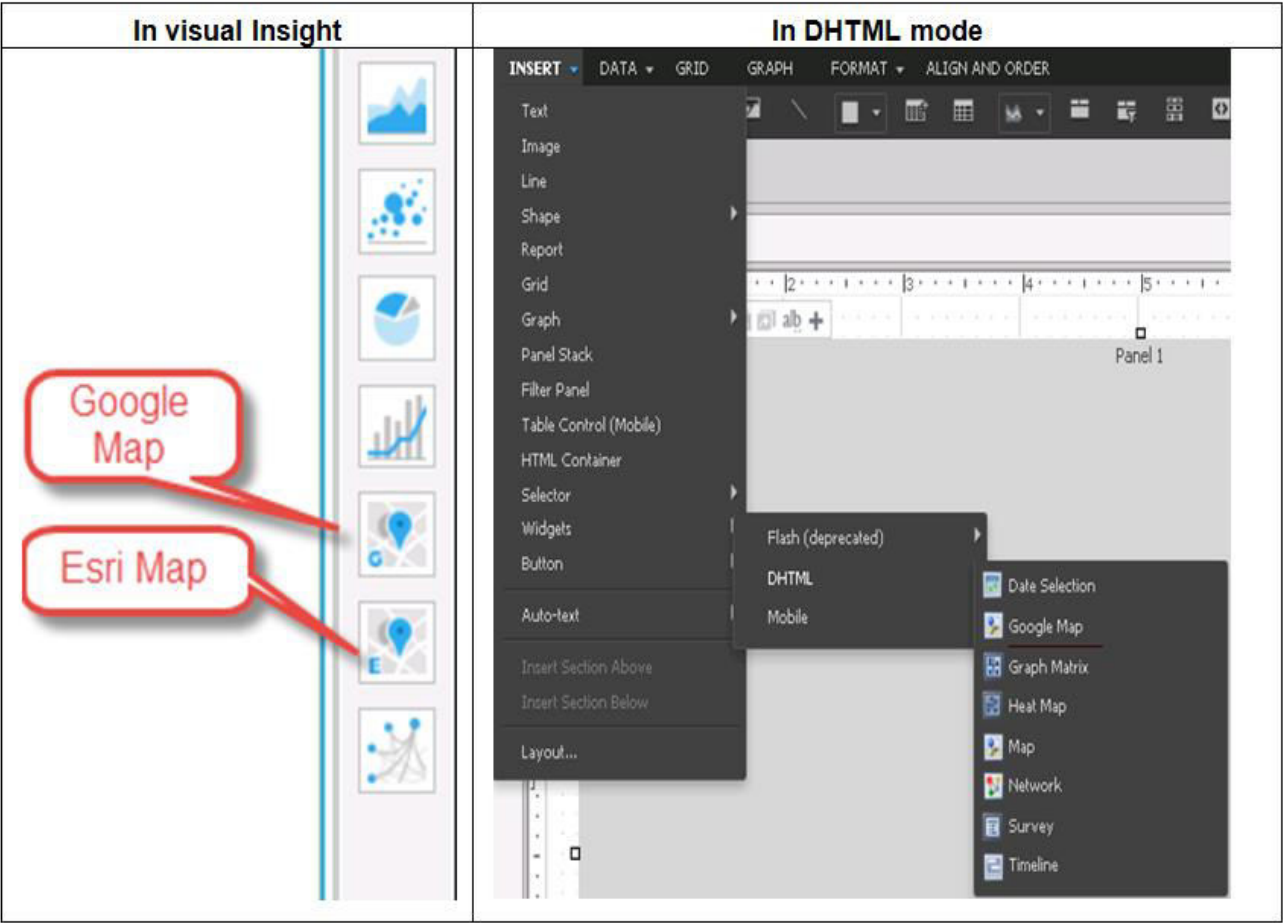
```







```
<gc>
  <mk isPremier="false">Add key obtained from Google</mk>
</gc>
```



Chapter 5: Customization of MicroStrategy

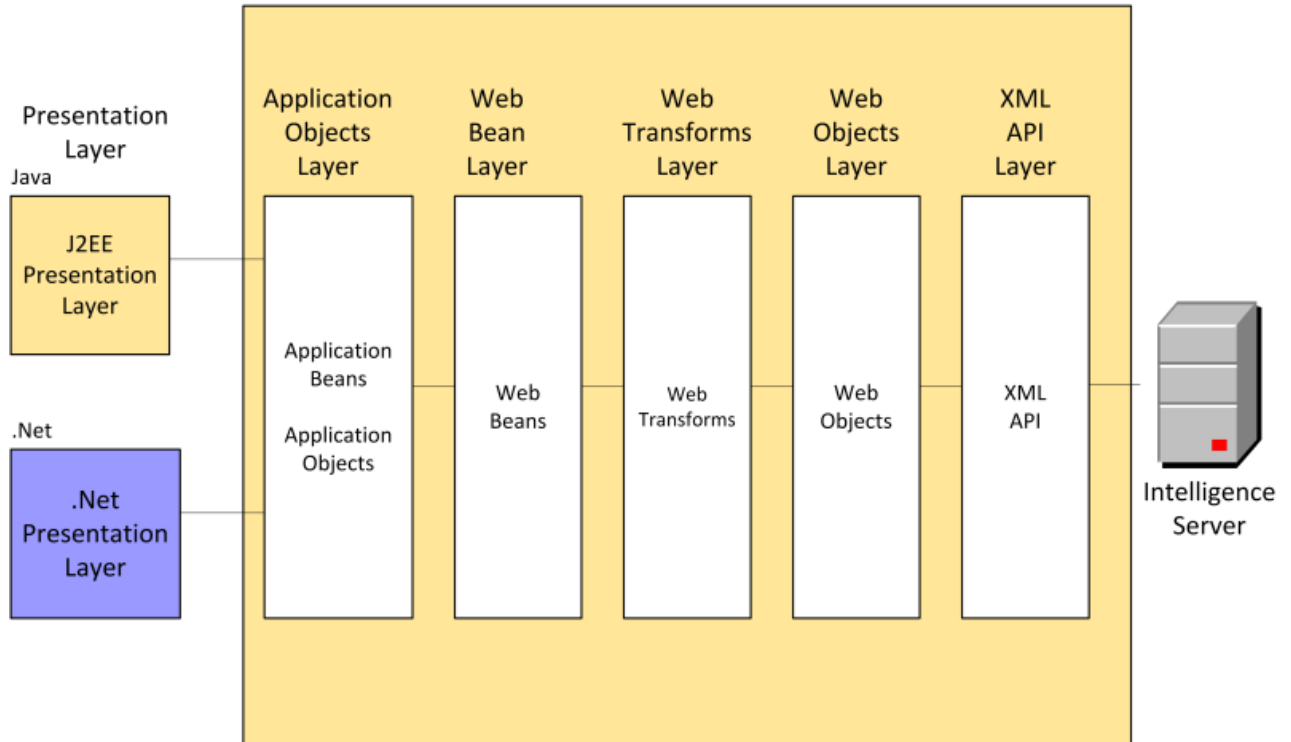
The screenshot shows the MicroStrategy Community Developer Zone page. At the top left is the MicroStrategy logo and the word "Community". At the top right is a "Menu" icon and a navigation bar with "Register", "Sign In", and "Help" links. Below this is a red banner with the text "Developer Zone" and "Browse the developer library and API documentation, and connect with other developers." To the right of the banner is a "Symposium Series 2016" graphic. Below the banner is a breadcrumb trail: "MicroStrategy > Developer Zone".

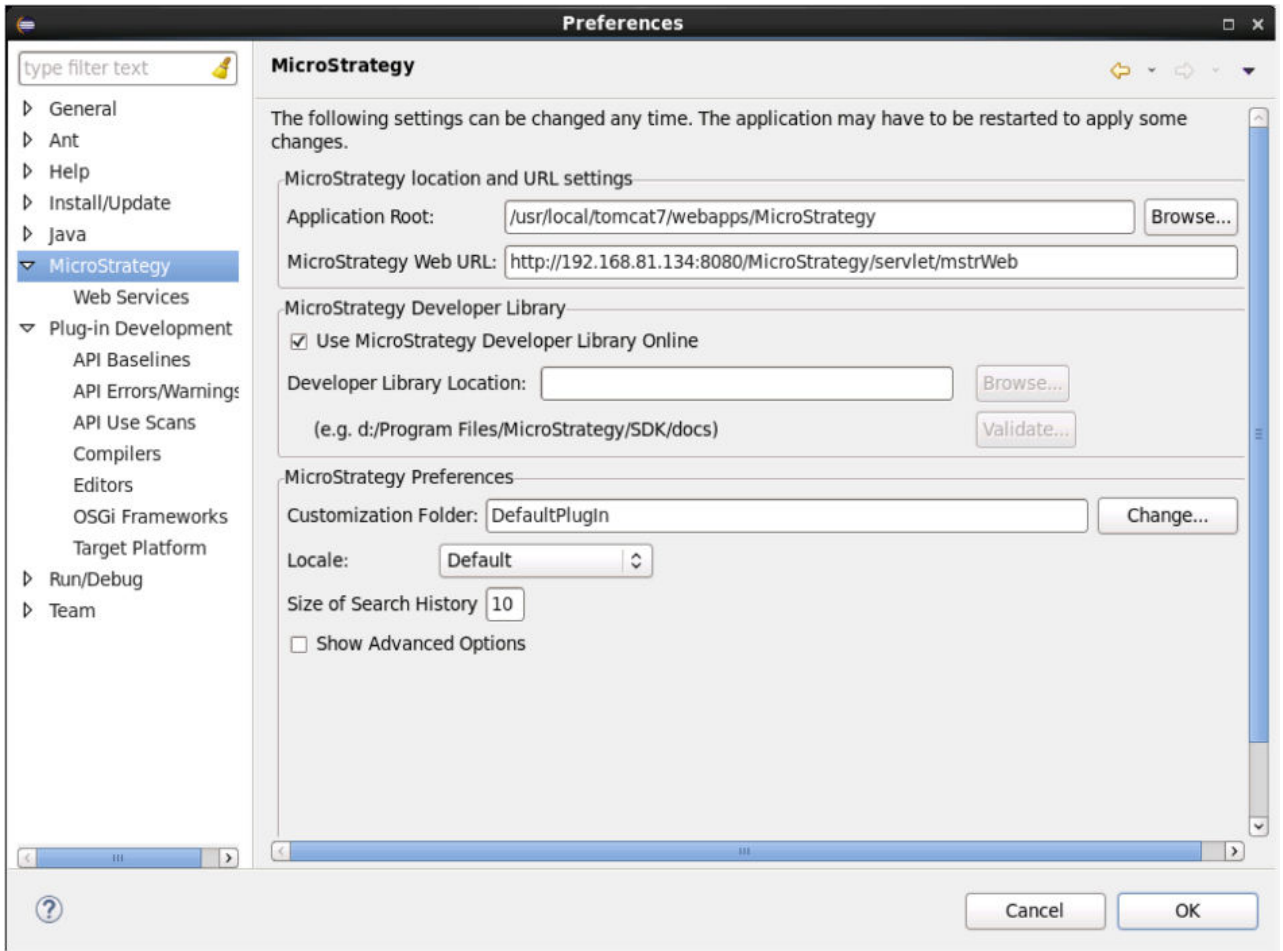
The main content area is divided into two columns. The left column features "SDK discussion forums" with a speech bubble icon and a description: "Ask questions, find solutions, and share insights about your MicroStrategy implementation." Below this is a dark blue button labeled "Browse discussions" with a right-pointing chevron. The right column features "SDK knowledge base" with a book icon and a description: "Search and browse the latest tech notes on our SDK, written by MicroStrategy experts." Below this is a dark blue button labeled "Find SDK tech notes" with a right-pointing chevron.

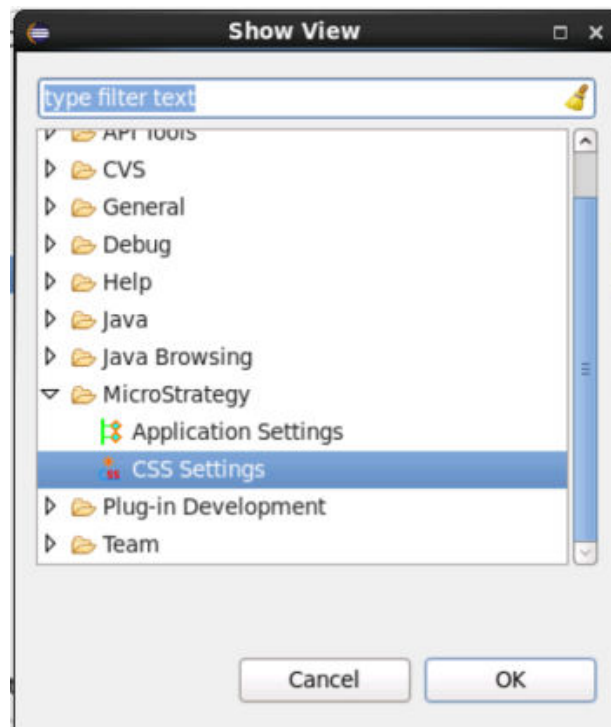
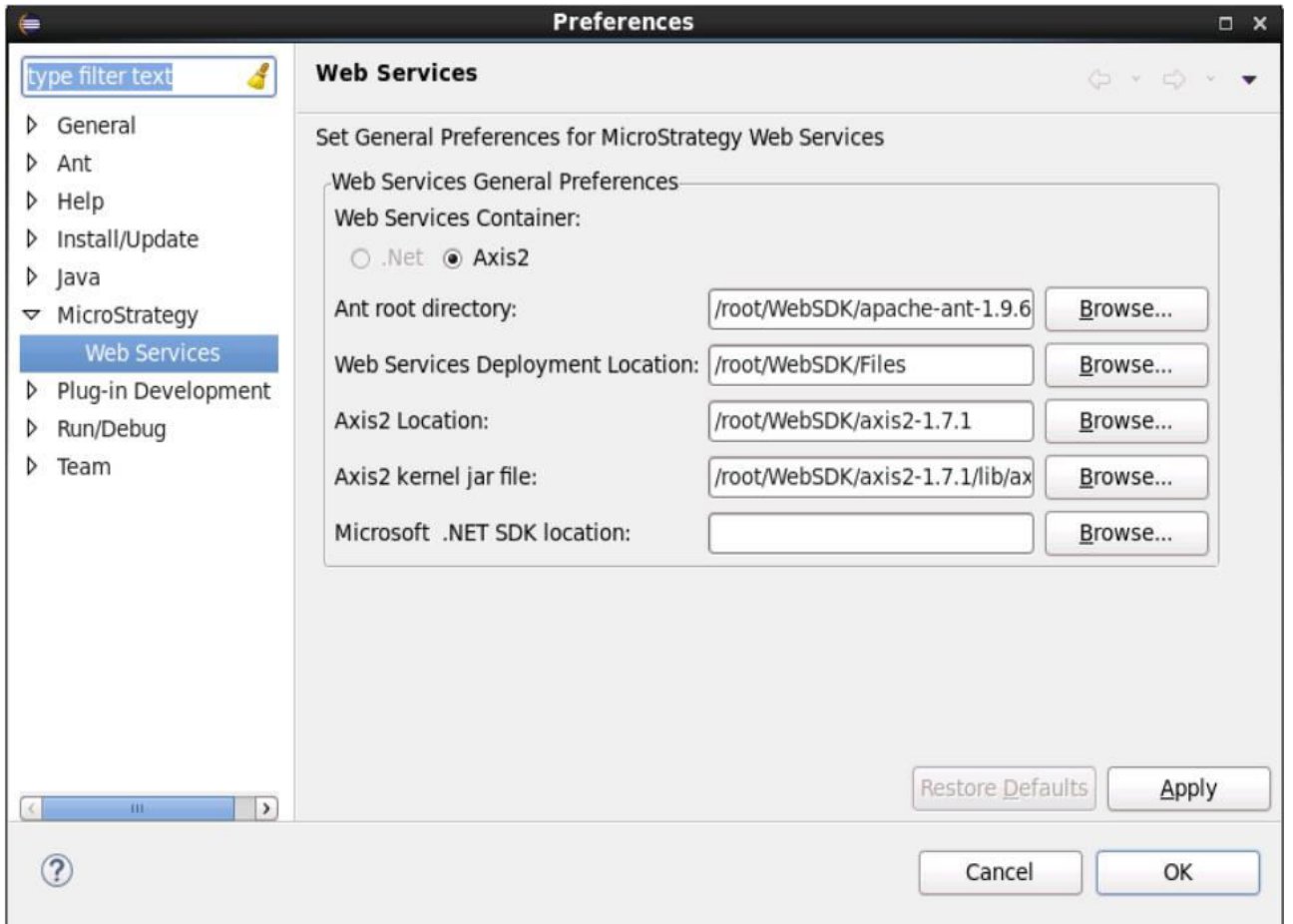
Below these two columns are four white cards, each representing a different SDK. Each card has an icon at the top, a title, a brief description, and two buttons at the bottom. The "Web SDK" card has a globe icon and buttons for "Documentation" and "Download". The "Mobile SDK" card has a mobile phone icon and buttons for "Documentation" and "Download". The "Visualization SDK" card has a bar chart icon and buttons for "Documentation" and "Visualization Gallery". The "API References" card has a network diagram icon and a "Select API" button with a dropdown arrow.

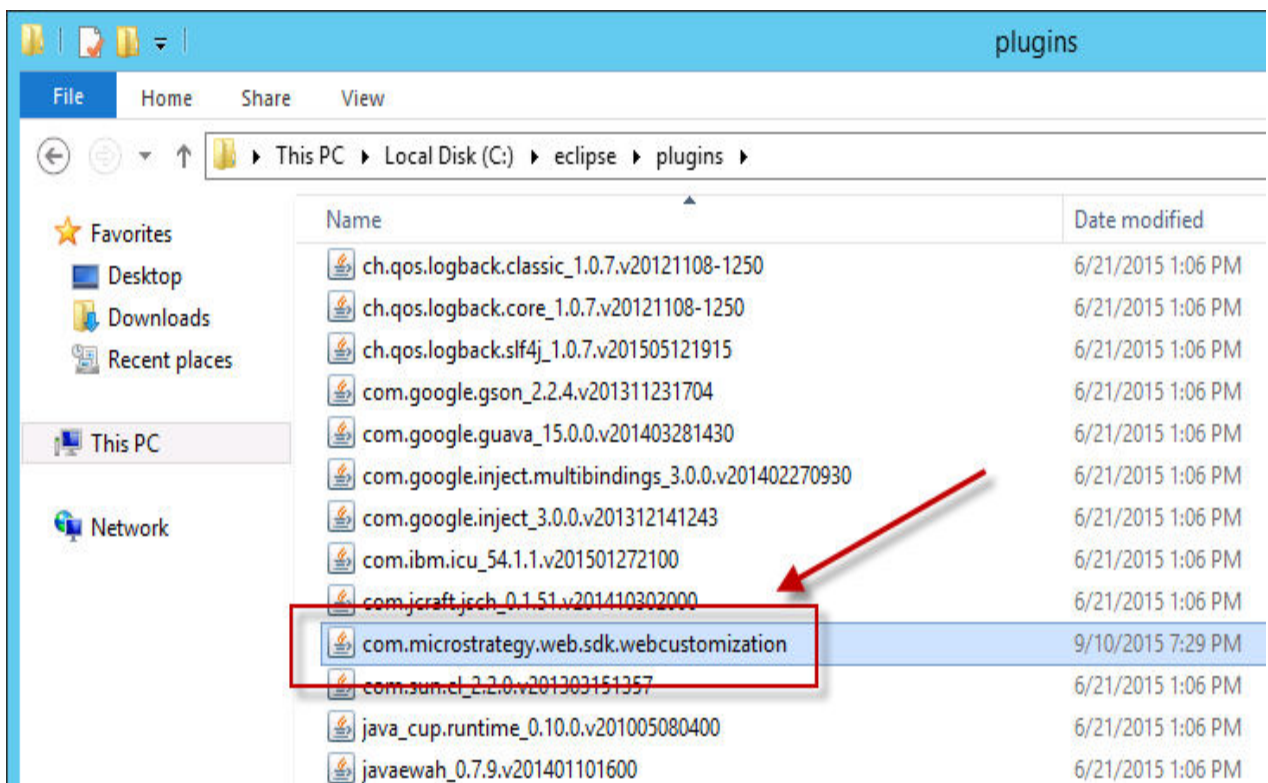
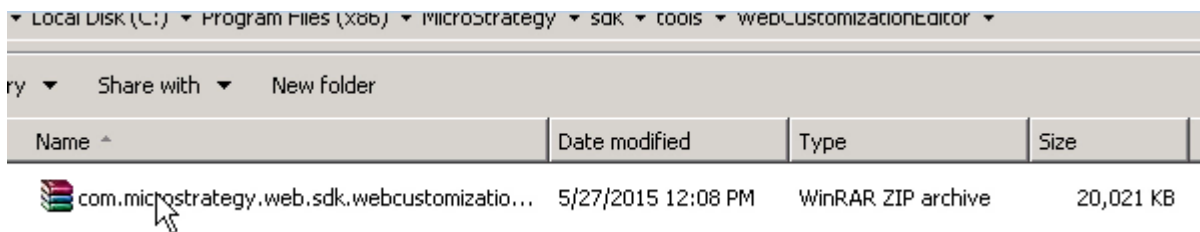
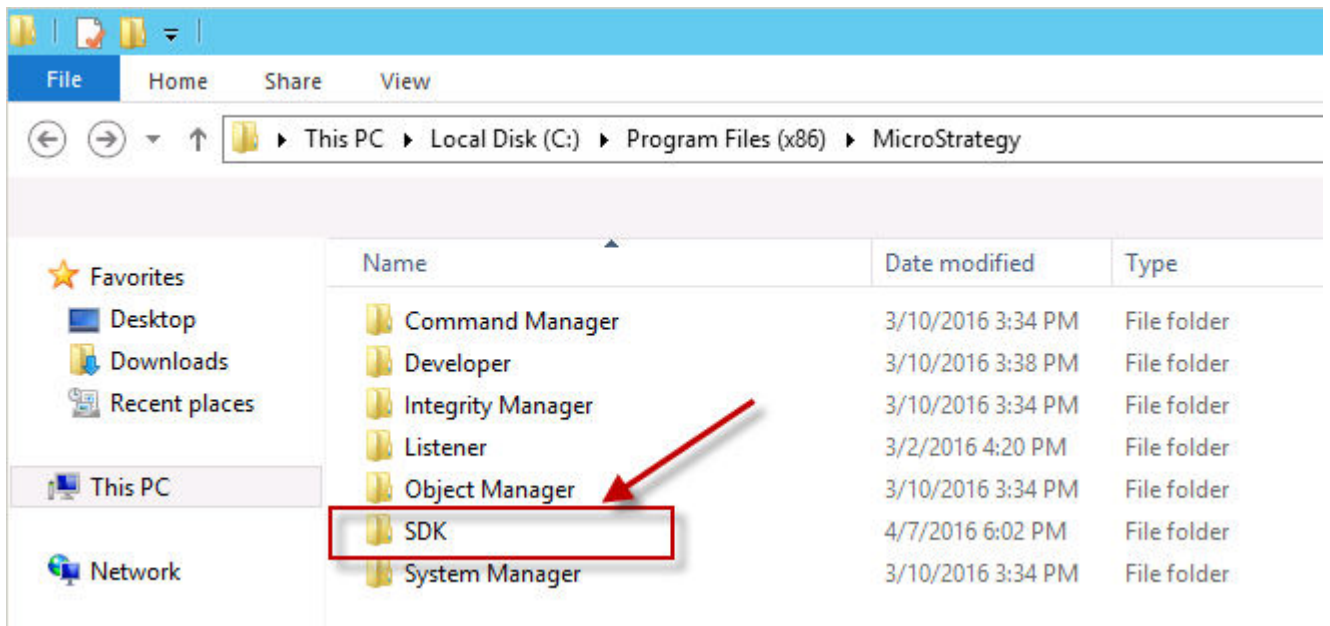
At the bottom right of the page, there are two links: "What's new" and "Previous releases", both with right-pointing chevrons.

Java









REPORT DETAILS ? X

Report Filter:
Empty Filter

Data rows: 2 | Data columns: 3

Metrics	Year	2010	2011	2012
Revenue		\$8,647,238	\$11,517,606	\$14,858,864
Units Sold		209,213	278,751	359,509

Call Center	Metrics	Timeliness
Atlanta		90.69%
San Diego		90.84%
San Francisco		90.82%
Washington, DC		91.02%
Salt Lake City		90.62%
Miami		90.92%
Milwaukee		90.87%
New Orleans		91.25%
Seattle		90.50%
Boston		90.89%
New York		91.17%
Fargo		90.59%
Memphis		90.55%
Charleston		90.67%
Web		91.00%

SDK Sample Report Search: All folders ?

Home ▾ Tools ▾ Data ▾ Grid Format ▾ Publish ▾ Last update: 7/16/13 12:19:51 PM

SDK Sample Report

REPORT DETAILS ? X

Report Filter:
Empty Filter

Data rows: 2 | Data columns: 3

Metrics	Year	2010	2011	2012
Revenue		\$8,647,238	\$11,517,606	\$14,858,864
Units Sold		209,213	278,751	359,509

Call Center Timeliness

Call Center	Metrics	Timeliness
Atlanta		90.69%
San Diego		90.84%
San Francisco		90.82%
Washington, DC		91.02%
Salt Lake City		90.62%
Miami		90.92%
Milwaukee		90.87%





Developer Zone

Browse the developer library and API documentation, and connect with other developers.



Symposium Series 2016

MicroStrategy > Developer Zone

SDK discussion forums

Ask questions, find solutions, and share insights about your MicroStrategy implementation.

Browse discussions >



SDK knowledge base

Search and browse the latest tech notes on our SDK, written by MicroStrategy experts.

Find SDK tech notes >

download from here

Web SDK

Browse documentation, samples, plug-ins, tools, and utilities to help you customize MicroStrategy Web.

[Documentation](#)

[Download](#)

Mobile SDK

Browse documentation and sample code to help you customize your iOS and Android applications.

[Documentation](#)

[Download](#)

Visualization SDK

Browse documentation, sample code, plug-ins, and tools to help you create HTML5 visualizations.

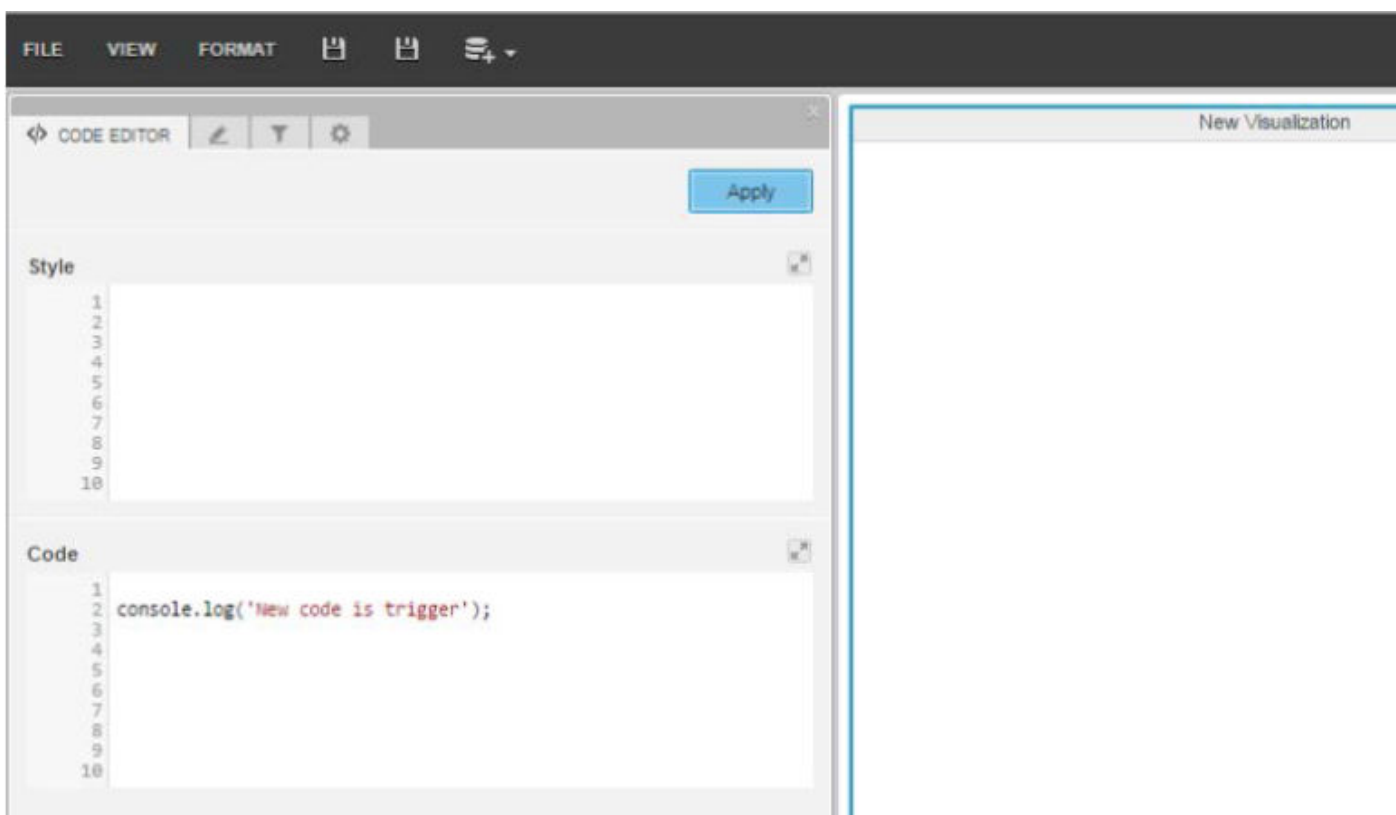
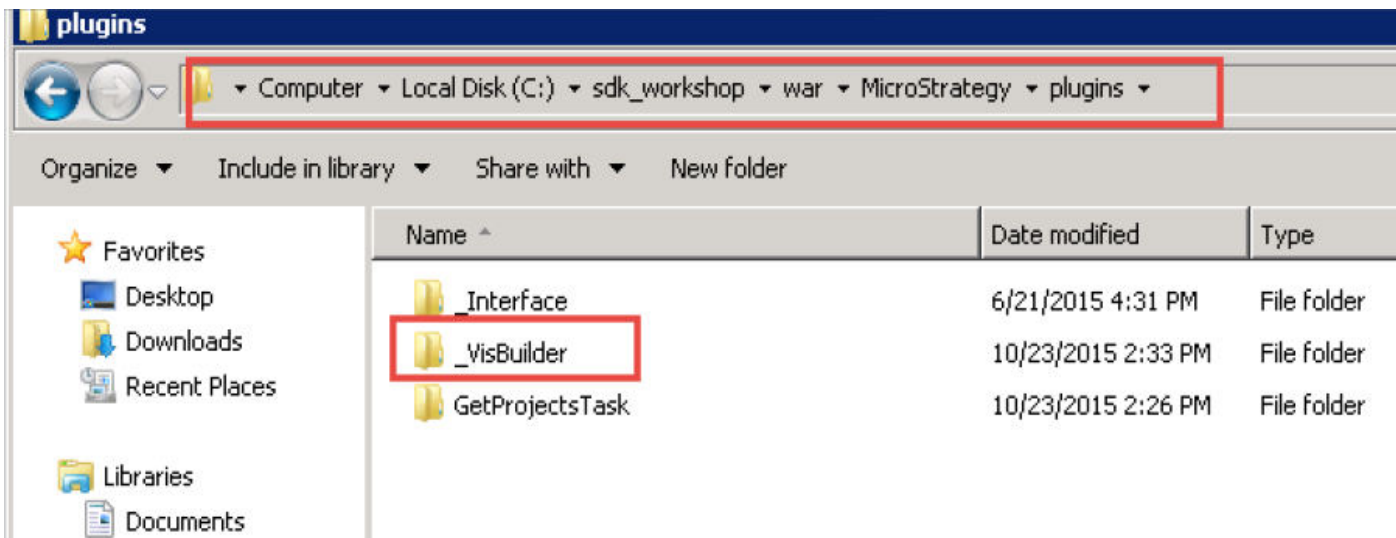
[Documentation](#)

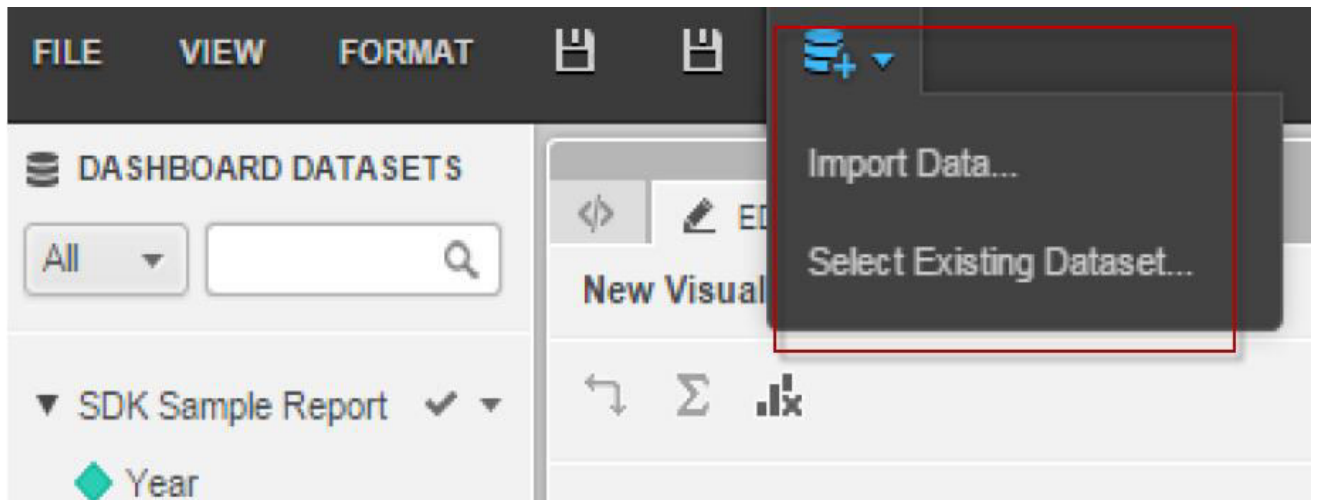
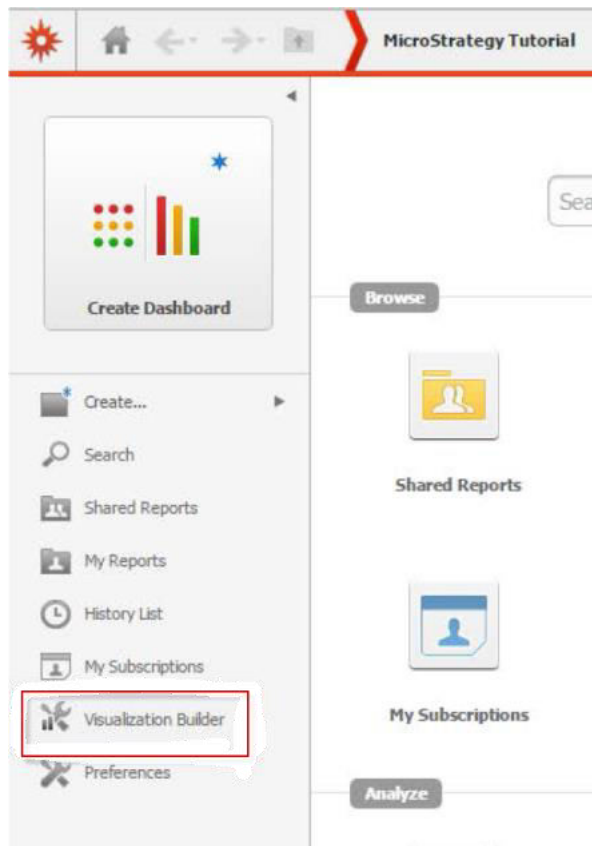
[Visualization Gallery](#)

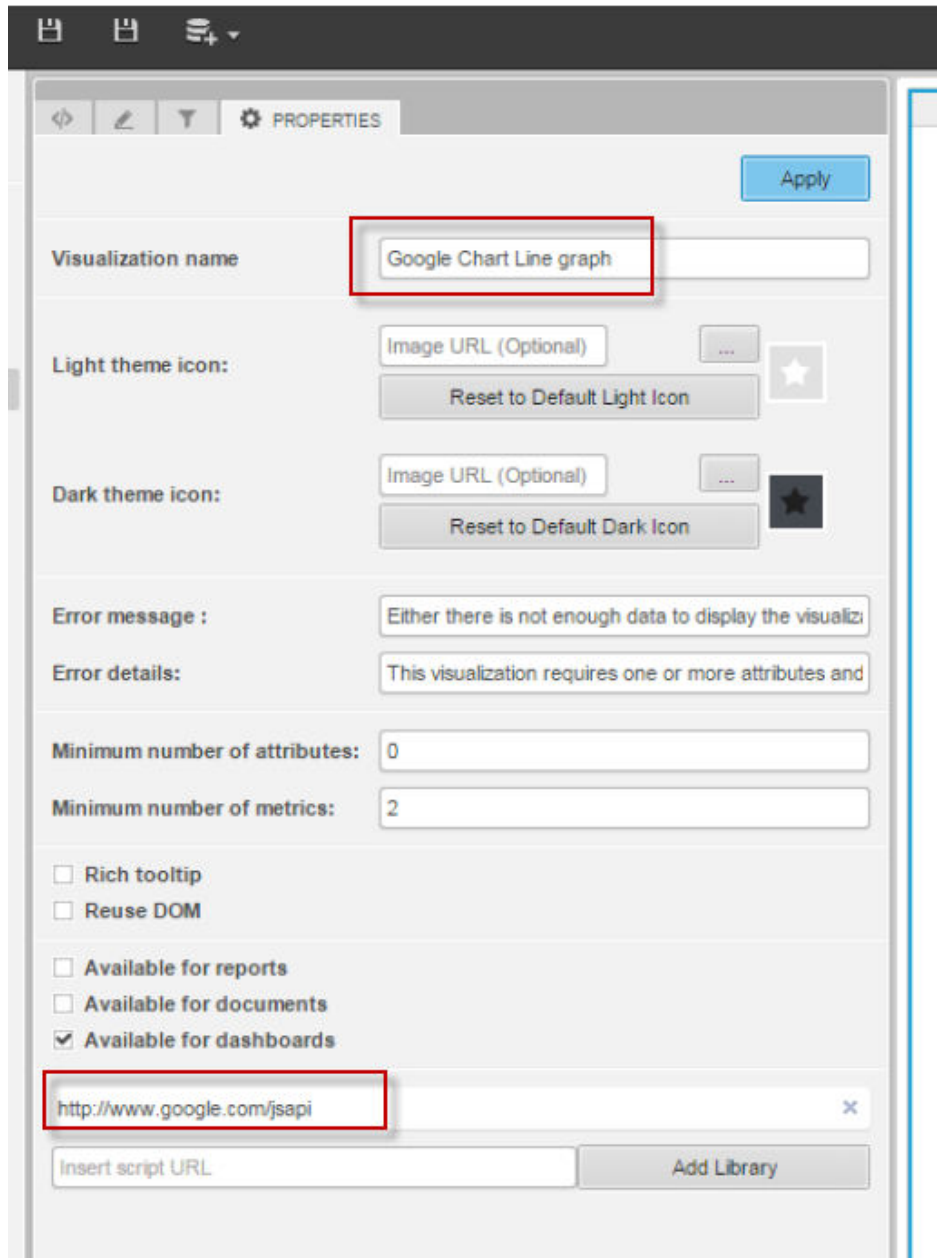
API References

Access reference information for packages, classes, interfaces and methods in MicroStrategy SDKs.

[Select API](#) ▼



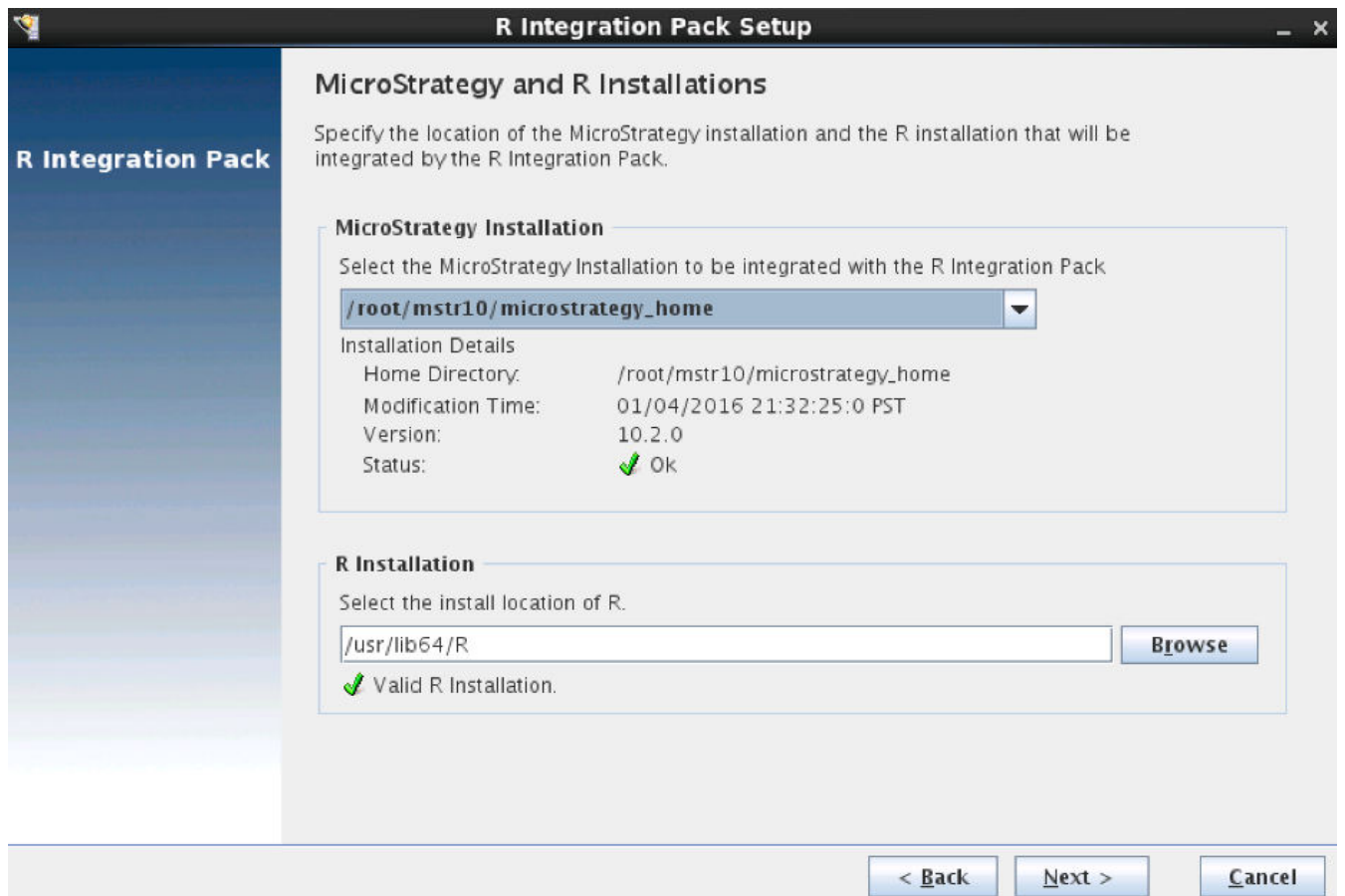




Chapter 6: Predictive Analysis with MicroStrategy

```
[root@localhost tmp]# R
```

```
R version 3.2.3 (2015-12-10) -- "Wooden Christmas-Tree"  
Copyright (C) 2015 The R Foundation for Statistical Computing  
Platform: x86_64-redhat-linux-gnu (64-bit)
```



Configuration Wizard

MICROSTRATEGY
ANALYTICS
ENTERPRISE

Welcome to MicroStrategy Configuration Wizard

MicroStrategy Configuration Wizard walks you through the process of setting up the environment for the MicroStrategy products installed in your system. Select the component to be configured from the list below or load a response file to run configurations in silent or unattended mode.

- Create Metadata, History List and Enterprise Manager Repositories
- Configure Intelligence Server
- Create Enterprise Manager project
- Create a Project Source
- Ugrade existing environment to MicroStrategy Analytics Enterprise
- Health Center configuration

Upgrade MicroStrategy Intelligence Server, Statistics and Enterprise Manager Repositories, Enterprise Manager Project, History List repositories, or Narrowcast Web delivery subscriptions to MicroStrategy Analytics Enterprise.

[Help](#)

 [Load...](#)

< [Back](#)

[Next](#) >

[Exit](#)


```

> library(nnet)
> Iris <- read.csv("https://raw.githubusercontent.com/uiuc-cse/data-fa14/gh-pages/data/iris.csv")
> IrisNet <- nnet(species~., data=Iris, size=4)
# weights: 35
initial value 165.456625
iter 10 value 51.617848
iter 20 value 7.132479
iter 30 value 5.109677
iter 40 value 4.924437
iter 50 value 4.922125
iter 60 value 4.922013
iter 70 value 4.921957
iter 70 value 4.921957
iter 70 value 4.921957
final value 4.921957
converged
> str(IrisNet)
List of 19
 $ n          : num [1:3] 4 4 3
 $ nunits     : int 12
 $ nconn      : num [1:13] 0 0 0 0 0 0 5 10 15 20 ...
 $ conn       : num [1:35] 0 1 2 3 4 0 1 2 3 4 ...
 $ nsunits    : num 9
 $ decay      : num 0
 $ entropy    : logi FALSE
 $ softmax    : logi TRUE
 $ censored   : logi FALSE
 $ value      : num 4.92
 $ wts        : num [1:35] -2.32 -31.29 7.65 -65.78 -25.51 ...
 $ convergence : int 0
 $ fitted.values: num [1:150, 1:3] 1 1 1 1 1 1 1 1 1 1 ...
 ..- attr(*, "dimnames")=List of 2
 .. ..$ : chr [1:150] "1" "2" "3" "4" ...
 .. ..$ : chr [1:3] "setosa" "versicolor" "virginica"
 $ residuals   : num [1:150, 1:3] 0 0 0 0 0 0 0 0 0 0 ...
 ..- attr(*, "dimnames")=List of 2
 .. ..$ : chr [1:150] "1" "2" "3" "4" ...
 .. ..$ : chr [1:3] "setosa" "versicolor" "virginica"
 $ lev         : chr [1:3] "setosa" "versicolor" "virginica"
 $ call        : language nnet.formula(formula = species ~ ., data = Iris, size = 4)
 $ terms       :Classes 'terms', 'formula' length 3 species ~ sepal_length + sepal_width + petal_length + petal_width
 .. ..- attr(*, "variables")= language list(species, sepal_length, sepal_width, petal_length, petal_width)
 .. ..- attr(*, "factors")= int [1:5, 1:4] 0 1 0 0 0 0 0 0 1 0 0 ...
 .. .. ..- attr(*, "dimnames")=List of 2
 .. .. .. ..$ : chr [1:5] "species" "sepal_length" "sepal_width" "petal_length" ...
 .. .. .. ..$ : chr [1:4] "sepal_length" "sepal_width" "petal_length" "petal_width"
 .. ..- attr(*, "term.labels")= chr [1:4] "sepal_length" "sepal_width" "petal_length" "petal_width"
 .. ..- attr(*, "order")= int [1:4] 1 1 1 1
 .. ..- attr(*, "intercept")= int 1
 .. ..- attr(*, "response")= int 1
 .. ..- attr(*, ".Environment")=<environment: R_GlobalEnv>
 .. ..- attr(*, "predvars")= language list(species, sepal_length, sepal_width, petal_length, petal_width)
 .. ..- attr(*, "dataClasses")= Named chr [1:5] "factor" "numeric" "numeric" "numeric" ...
 .. .. ..- attr(*, "names")= chr [1:5] "species" "sepal_length" "sepal_width" "petal_length" ...
 $ coefnames   : chr [1:4] "sepal_length" "sepal_width" "petal_length" "petal_width"
 $ xlevels     : Named list()
 - attr(*, "class")= chr [1:2] "nnet.formula" "nnet"

```

```

RGui (32-bit) - [R Console]
File Edit View Misc Packages Windows Help
[Icons: Run, Save, Print, Copy, Paste, Undo, Redo, Stop, Refresh]

> library(pmml)
Loading required package: XML
> pmml(IrisNet)
<PMML version="4.2" xmlns="http://www.dmg.org/PMML-4_2" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLoca
<Header copyright="Copyright (c) 2016 John" description="Neural Network PMML Model">
  <Extension name="user" value="John" extender="Rattle/PMML"/>
  <Application name="Rattle/PMML" version="1.4"/>
  <Timestamp>2016-02-18 23:59:41</Timestamp>
</Header>
<DataDictionary numberOfFields="5">
  <DataField name="species" optype="categorical" dataType="string">
    <Value value="setosa"/>
    <Value value="versicolor"/>
    <Value value="virginica"/>
  </DataField>
  <DataField name="sepal_length" optype="continuous" dataType="double"/>
  <DataField name="sepal_width" optype="continuous" dataType="double"/>
  <DataField name="petal_length" optype="continuous" dataType="double"/>
  <DataField name="petal_width" optype="continuous" dataType="double"/>
</DataDictionary>
<NeuralNetwork modelName="NeuralNet_model" functionName="classification" numberOfLayers="2" activationFunction="logistic">
  <MiningSchema>
    <MiningField name="species" usageType="predicted"/>
    <MiningField name="sepal_length" usageType="active"/>
    <MiningField name="sepal_width" usageType="active"/>
    <MiningField name="petal_length" usageType="active"/>
    <MiningField name="petal_width" usageType="active"/>
  </MiningSchema>
  <Output>
    <OutputField name="Predicted_species" feature="predictedValue"/>
    <OutputField name="Probability_setosa" optype="continuous" dataType="double" feature="probability" value="setosa"/>
    <OutputField name="Probability_versicolor" optype="continuous" dataType="double" feature="probability" value="versicolor"/>
    <OutputField name="Probability_virginica" optype="continuous" dataType="double" feature="probability" value="virginica"/>
  </Output>

```

Probability of Response = 0.02 + 0.04 Age + 0.02 Gender + 0.06 Income

More accurate

Hard to understand



Neural Network

Cluster Model

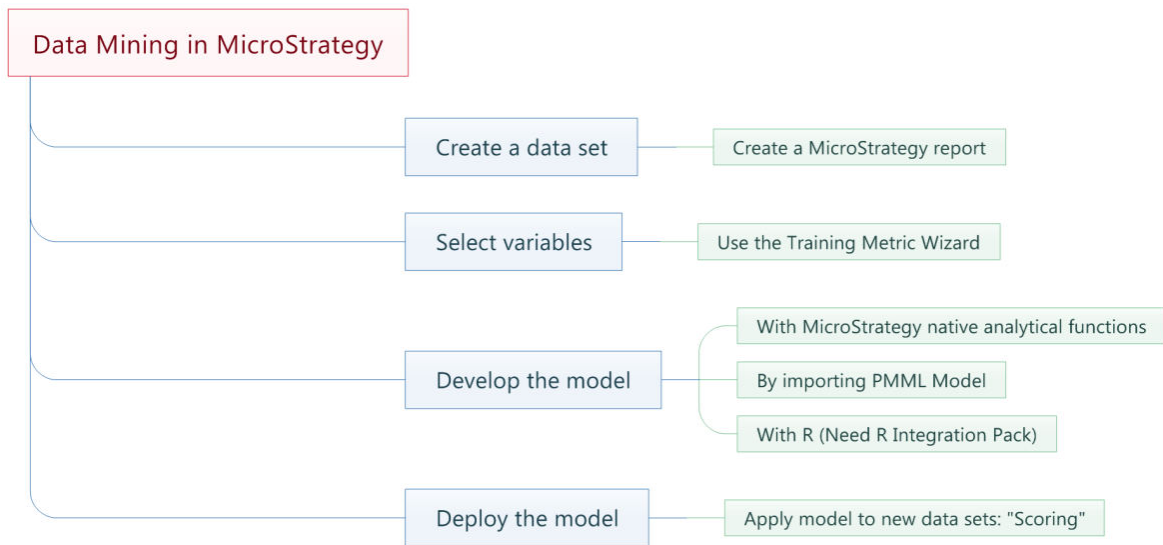
Regression Model

Decision Tree



Less accurate

Easy to understand



Exercise Report

File Edit View Insert Format Data Grid Move Window Help

Save and Close Corporate Rows Values B I U

Report objects		Report details								
Name	Type	View filter								
Customer	Attrib			Metrics	Age Range	Gender	Education	Household Count	Promotion	Revenue
Order	Attrib									
Age Range	Metric									
Education	Metric									
Gender	Metric									
Household Count	Metric									
Promotion	Metric									
Promotion	Metric									
Revenue	Metric									

Customer	Order	Age Range	Gender	Education	Household Count	Promotion	Revenue	
Aadland	Constant	134842	45 to 54	Female	Undergraduate	2	0	\$44
Aagesen	Bink	134990	24 and under	Male	Undergraduate	1	0	\$76
Aalgaard	Kenney	133142	55 and over	Male	Graduate	1	0	\$142
		140463	55 and over	Male	Graduate	1	0	\$121
Aaron	Ferrell	135981	25 to 34	Male	Other	2	0	\$61
Aaronson	Maxwell	141241	45 to 54	Male	High School	2	0	\$19
Aasen	Beatrice	136042	45 to 54	Female	Other	Over 6	1	\$74
		137932	45 to 54	Female	Other	Over 6	1	\$84
Aba	Blain	139768	25 to 34	Male	High School	1	0	\$22
		140103	25 to 34	Male	High School	1	0	\$143
Aba-Bulgu	Leslie	141043	25 to 34	Male	High School	1	0	\$148
		136712	55 and over	Female	Graduate	3	1	\$61
Abad	Geoffrey	141383	55 and over	Male	Undergraduate	2	0	\$108
		141535	55 and over	Male	Undergraduate	2	0	\$978
Abadilla	Lennie	143229	55 and over	Male	Undergraduate	2	0	\$48
		138186	35 to 44	Male	Undergraduate	2	0	\$51
Abajian	Lorin	141809	35 to 44	Male	Undergraduate	2	0	\$97
		141060	55 and over	Female	High School	4	1	\$861

Import Data Mining Model

Select a PMML Model

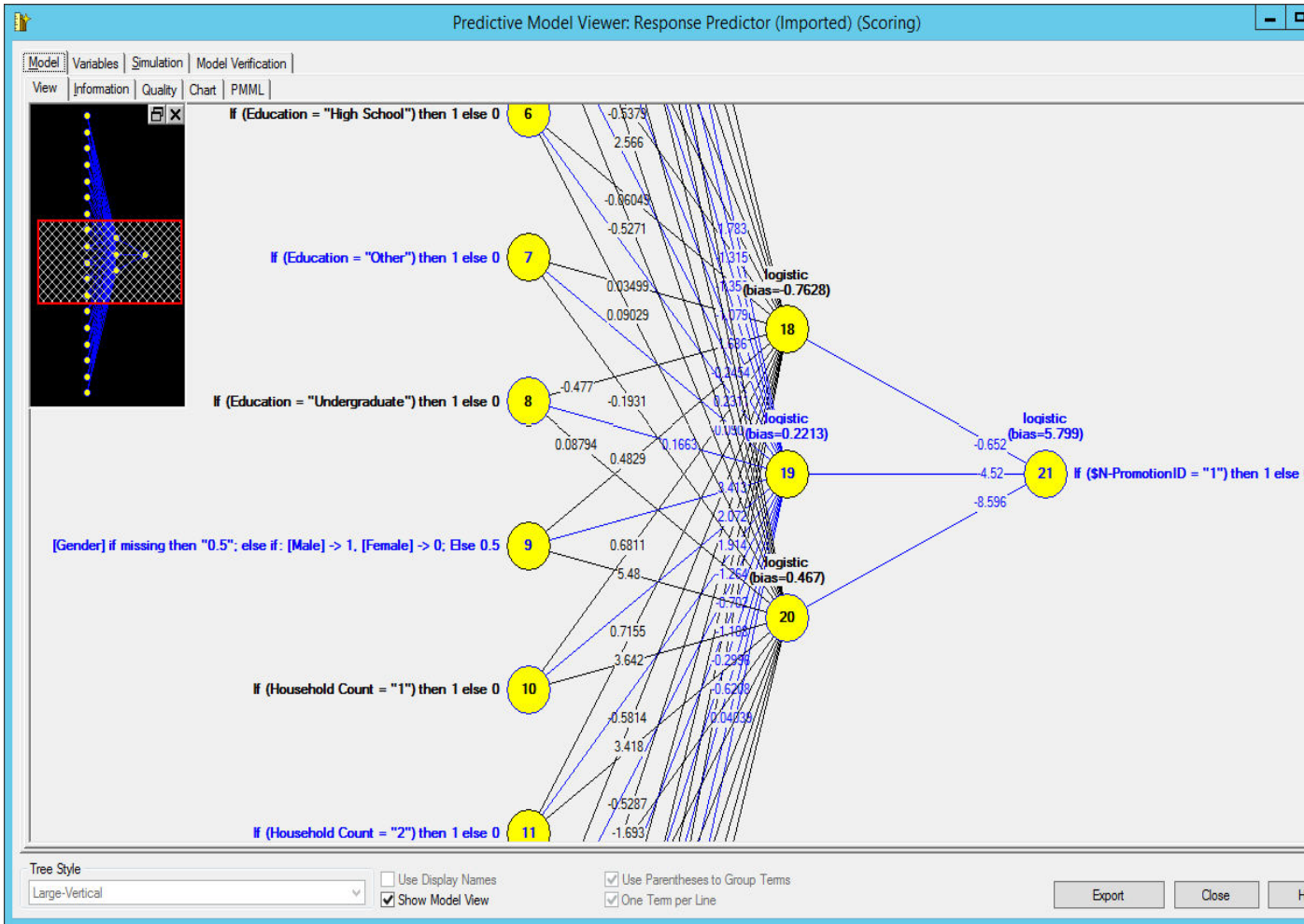
Please select a predictive model that you want to import into the MicroStrategy metadata. Predictive models must use the Predictive Modelling Markup Language (PMML) format. Also, please enter the name and description for the predictive metric.

File: ...

Select the Predictive Metric Type

Predictor Type	Name	Aggregation function
<input checked="" type="checkbox"/> Predicted Value	Response Predictor (Imported) (Scoring)	Sum
<input checked="" type="checkbox"/> Probability	Response Predictor (Imported) (Confidence)	Avg

OK Cancel Help



Shortcut to a Filter

Choose a filter

Filter:

Filter definition

Order (Date) Between 8/1/2013 AND 9/30/2013

OK

Cancel

Help

Prompt...

Advanced...

File Edit View Insert Format Data Grid Move Window Help

Save and Close

Report objects

Name

- Customer
 - Back-to-School Sale Respond
 - Response Predictor (Imported)
 - Response Predictor (Imported)

Report details

View filter

		Metrics	Back-to-School Sale Responder	Response Predictor (Imported) (Scoring)	Response Predictor (Imported) (Confidence)
Customer					
Total			1,002	483	8.59%
Count			5612	5612	5612
Aadland	Warner		0	0	0.00%
Aafedt	Wendy		0	0	0.06%
Aagesen	Bink		0	0	0.00%
Aamodt	Stacy		1	0	0.00%
Aaronson	Maxwell		0	0	0.05%
Aba	Blain		0	0	0.04%
Abad	Geoffrey		0	0	0.00%
Abarbanel	Hassam		0	0	0.00%
Abatemarco	May		0	0	0.00%
Abbasi	Dwayne		0	0	0.00%
Abbenhaus	Lonzie		0	0	0.00%
Abbott	Rosella		1	1	99.12%
Abbott	Delores		1	0	0.00%

Report Filter: 'Local Filter'

First Order Date (ID) Greater than 9/30/2014

Double-click here to add a qualification, or drag an object from the object browser.

Report View: 'Local Template' Switch to:

		Metrics	Response Predictor (Imported) (Scoring)	Response Predictor (Imported) (Confidence)
Customer				
Total			23	9.97%
Count			230	230
Abdullah	Candice		0	0.39%
Abeleda	Devon		0	0.05%
Abeles	Doyle		0	0.00%
Addington	Murry		0	0.00%
Aguirre	Diana		0	0.00%
Aiken	Tarek		0	0.00%
Aldaz	Rosella		1	98.66%
Alferez	Clair		0	0.00%
Allsup	Teresita		0	0.00%
Almanza	Denise		0	0.00%
Anda	Chayim		0	0.00%
Arcelona	Shiree		0	1.43%

Quarter	Metrics	Revenue	Quarter Index	Quarter of the Year
2012 Q1		\$1,682,656	1	1
2012 Q2		\$1,985,788	2	2
2012 Q3		\$2,314,295	3	3
2012 Q4		\$2,664,500	4	4
2013 Q1		\$2,498,756	5	1
2013 Q2		\$2,684,764	6	2
2013 Q3		\$3,067,019	7	3
2013 Q4		\$3,267,067	8	4
2014 Q1		\$3,111,989	9	1
2014 Q2		\$3,504,479	10	2
2014 Q3		\$3,729,456	11	3
2014 Q4		\$4,512,940	12	4
2015 Q1			13	1
2015 Q2			14	2
2015 Q3			15	3
2015 Q4			16	4

Training Metric Wizard - Select Type of Analysis

Select analysis-specific parameters.

Select type of analysis: **1**

Forecasting numeric values

- Linear Regression
- Exponential Regression
- Time Series

Classifying categorical values

- Decision Tree
- Logistic Regression

Grouping similar items

- Cluster

Identifying frequent itemsets

- Association

Linear Regression uses Ordinary Least Squares (solved using SVD) to find the strategy that best fits the data.

Help

Training Metric Wizard - Select Metrics

Select the dependent, independent, and segmentation metrics that participate in the regression model.

Forecasting

My Shortcuts

Name
Exponential Regression Revenue
Linear Regression Revenue
Quarter Index
Quarter of the Year

Dependent Metric: Revenue

Independent Metrics: Quarter Index, Quarter of the Year

2

Training Metric Wizard - Select Output

Select Predictive Metric options and select Outputs to be generated by this training metric.

Predictive Metric(s)

Predictive metric base name: Revenue Predictor Apply

Destination Folder:

- Folder: \Predictive analytics with MicroStrategy\Profiles\MSTR User (mstr)\My Reports\Forecasting
- Report Objects

Automatically create on report execution. Score Training Records

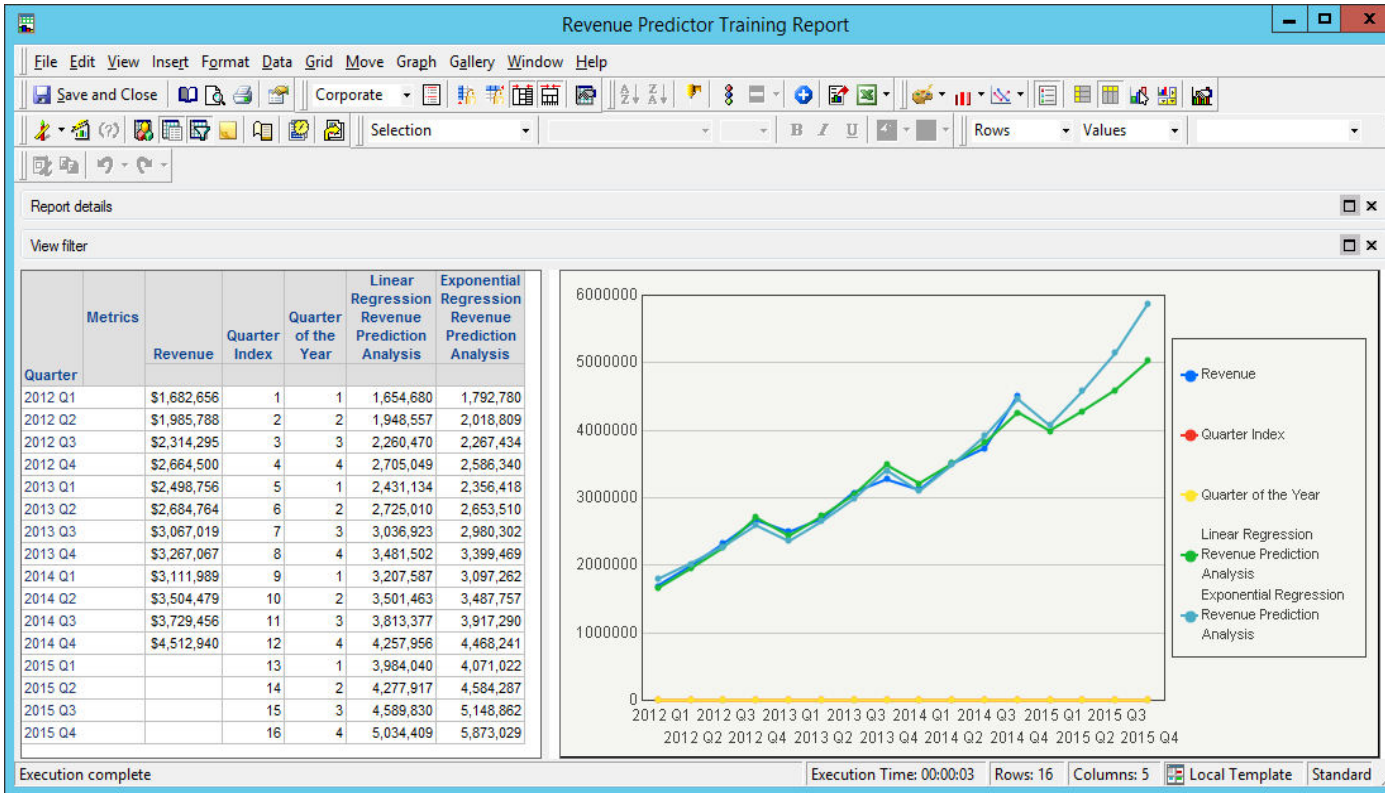
Include extended statistical analysis with the model.

Number of verification records to include with the model: 12

Predictive metric(s) to generate:

Select specific rules that will be applied to this model **3** Rules ...

Predictor Type	Name	Aggregation function
<input checked="" type="checkbox"/> Predicted Value	Revenue Predictor - Predicted Value	Sum
<input type="checkbox"/> Probability (Predicted Value)	Revenue Predictor - Probability (Predicted Value)	Avg



Object Browser

Geography

My Shortcuts

- Home
- My Personal Ob...
- Public Objects
- Schema Objects

Name

- Call Center
- Country
- Distribution Center
- Employee
- Employee Age
- Employee Birth Date
- Employee Experience
- Employee FTE Flag
- Hire Date
- Manager
- MicroStrategy User
- Region**
- Salary

Find:

Metric **Region** is defined as:

Max(Region@DESC){ReportLevel, Region}

Formula = Max(Region@DESC)

Level (Dimensionality) = ReportLevel, Region

Condition = (nothing)

Transformation = (nothing)

Level (Dimensionality)		
Target	Filtering	Grouping
Report Level	standard	standard
Region	standard	standard

Remove

Reset

Add Report Level

Advanced...

Training Metric Wizard - Select Metrics

Select the dependent, independent, and segmentation metrics that participate in the regression model.



Predictive Input Metrics

My Shortcuts

- Home
- My Personal Obj...
- Public Objects
- Schema Objects
- Hierarchies

Name
Age Range
Education
Gender
Household Count
Promotion
Region

Dependent Metric:



Revenue

Independent Metrics:



Quarter Index
Quarter of the Year

Segmentation Metrics:



Region



Show advanced options

Help

Cancel

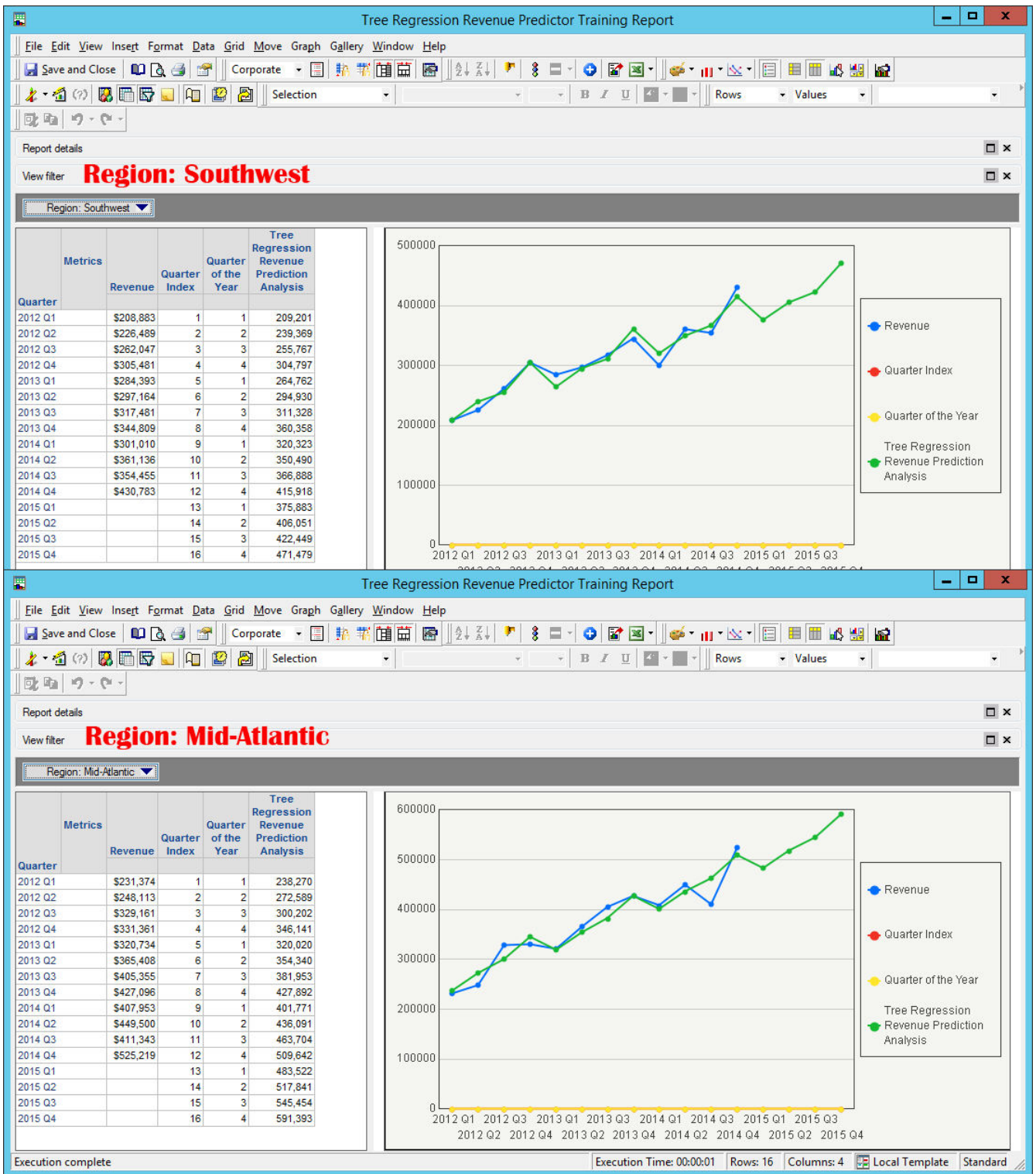
< Back

Next >

Finish

Advanced Variable Settings X

Metrics	Usage	Type	Missing Values	Outliers	Transformations
<input checked="" type="checkbox"/> Quarter Index	Independent	<input type="radio"/> Default <input type="radio"/> Categorical <input checked="" type="radio"/> Continuous <input type="radio"/> Ordinal	Define As Missing Null <input type="button" value="Add"/> <input type="button" value="Delete"/>	Range <input checked="" type="radio"/> None <input type="radio"/> Absolute <input type="radio"/> StdDev <input type="radio"/> Percentile	<input checked="" type="checkbox"/> As is <input type="checkbox"/> Squared <input type="checkbox"/> Cubed <input type="checkbox"/> Square root <input type="checkbox"/> Cubed root <input type="checkbox"/> Log <input type="checkbox"/> Exponent <input type="checkbox"/> Inverse <input type="checkbox"/> Inverse squared <input type="checkbox"/> Inverse cubed <input type="checkbox"/> Inverse squared root <input type="checkbox"/> Inverse cubed root <input type="checkbox"/> Inverse log <input type="checkbox"/> Inverse exponent
<input checked="" type="checkbox"/> Quarter of the Year	Independent		Treatment (Scoring) <input checked="" type="radio"/> Median/Mode <input type="radio"/> Mean/Mode <input type="radio"/> As Is <input type="radio"/> User-defined	Low <input type="text" value="0"/> <input type="text" value="0"/> Upper <input type="text" value="0"/> <input type="text" value="0"/>	
<input checked="" type="checkbox"/> Region	Segmentation		Treatment (Training) <input checked="" type="radio"/> Ignore <input type="radio"/> Same As Scoring	Treatment <input checked="" type="radio"/> As is <input type="radio"/> As extreme <input type="radio"/> As missing	<input type="button" value="Check All"/> <input type="button" value="Reset"/>
<input checked="" type="checkbox"/> Revenue	Dependent	Invalid Values <input checked="" type="radio"/> As is <input type="radio"/> Return invalid <input type="radio"/> As missing			



$$x_t = Ay_t + (1 - A)x_{t-1}$$

Training Metric Wizard - Select Metrics

Select the dependent and independent metrics that participate in the time series model.



Predictive analytics with MicroStrategy

My Shortcuts

- Home
- My Personal Obj...
- Public Objects
- Schema Objects
- Hierarchies

Name
My Personal Objects
Project Builder
Project Objects
Public Objects
Schema Objects
Attributes
Metrics

Dependent Metric:

> Revenue

Independent Metrics:

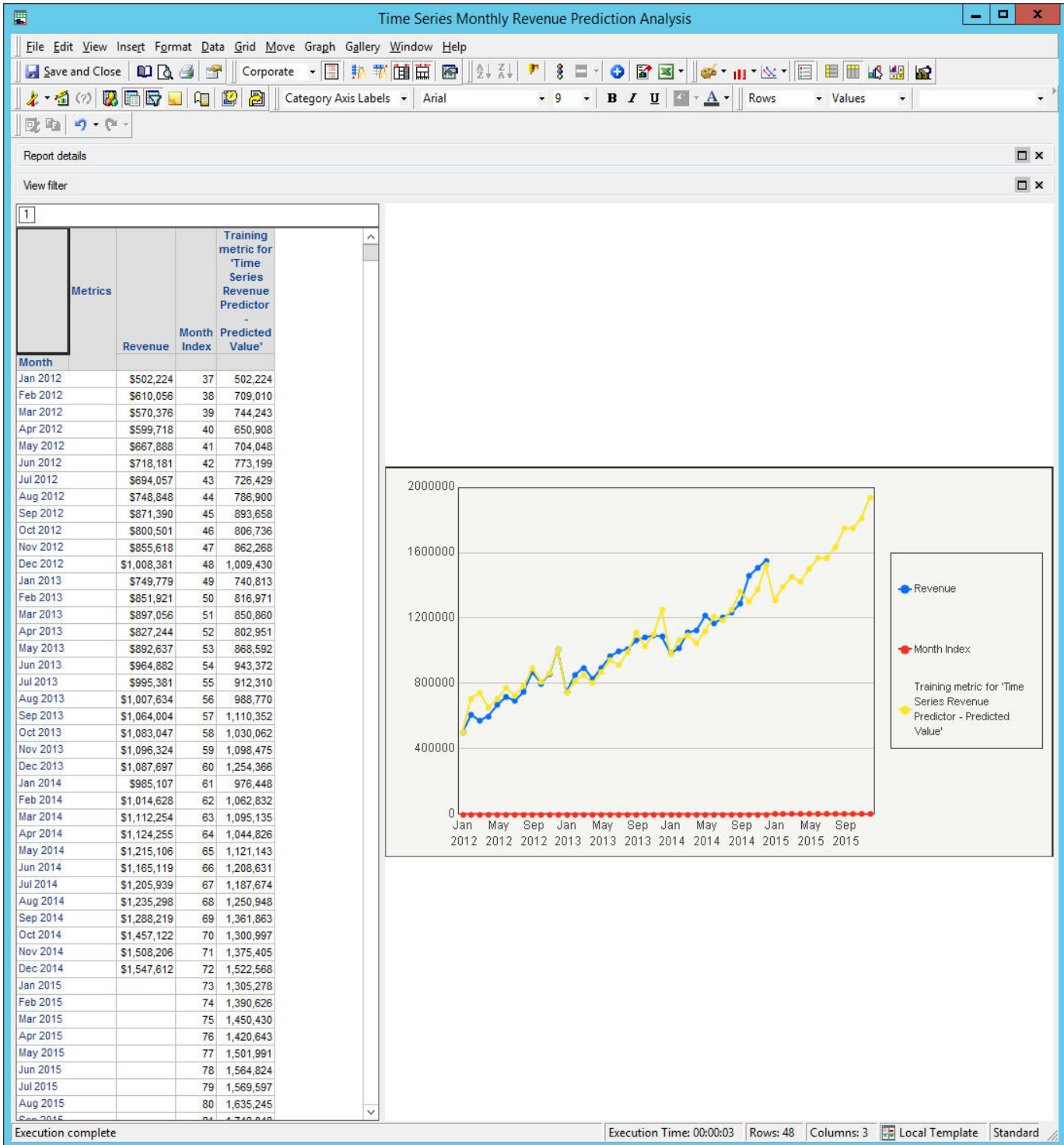
> Month Index

Segmentation Metrics:

>
 <
 ↑
 ↓

Show advanced options

Help Cancel < Back Next > Finish



Training Metric Wizard - Select Output

Select Predictive Metric options and select Outputs to be generated by this training metric.

Predictive Metric(s)
 Predictive metric base name: Apply

Destination Folder:
 Folder: ...
 Report Objects

Automatically create on report execution. Score Training Records
 Include extended statistical analysis with the model.
 Number of verification records to include with the model:

Predictive metric(s) to generate:
 Select specific rules that will be applied to this model Rules ...

Predictor Type	Name	Aggregation function
<input checked="" type="checkbox"/> Predicted Value	Telco Churn Predictor - Predicted Value	Sum
<input type="checkbox"/> Probability (Predicted Value)	Telco Churn Predictor - Probability (Predicted Value)	Avg
<input type="checkbox"/> Probability (All)	Telco Churn Predictor - Probability (All)	Avg
<input type="checkbox"/> Entity ID	Telco Churn Predictor - Entity ID	Mode

Help Cancel < Back Next > Finish

Telco Churn Training Report

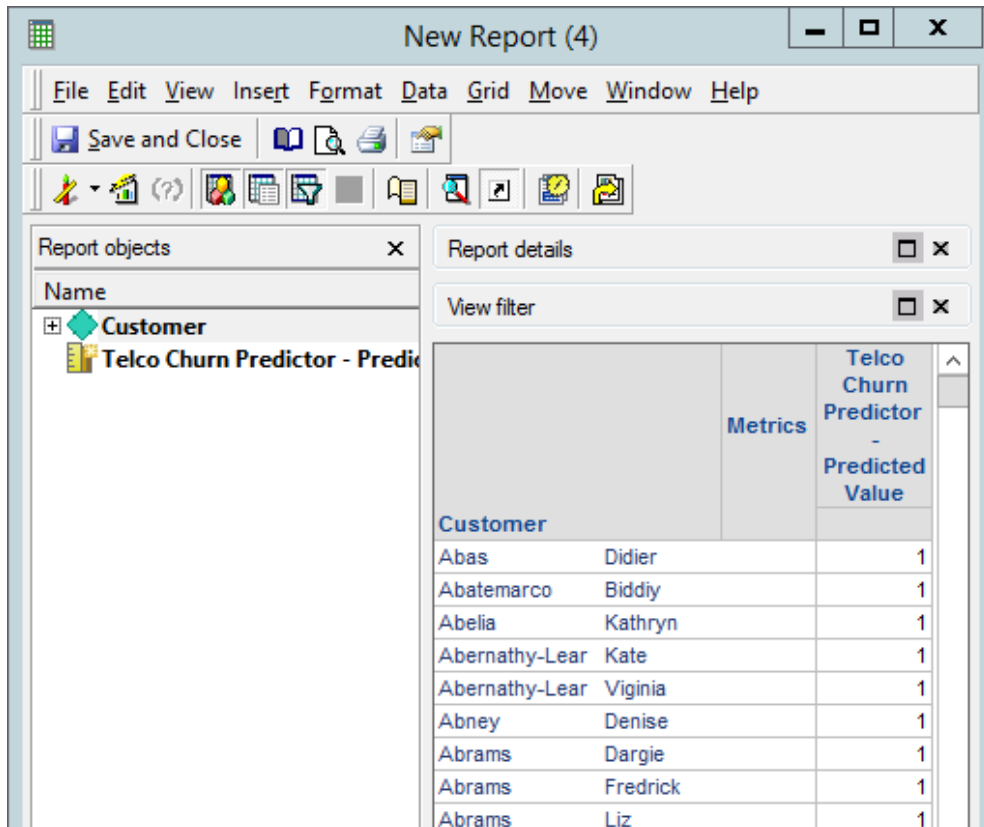
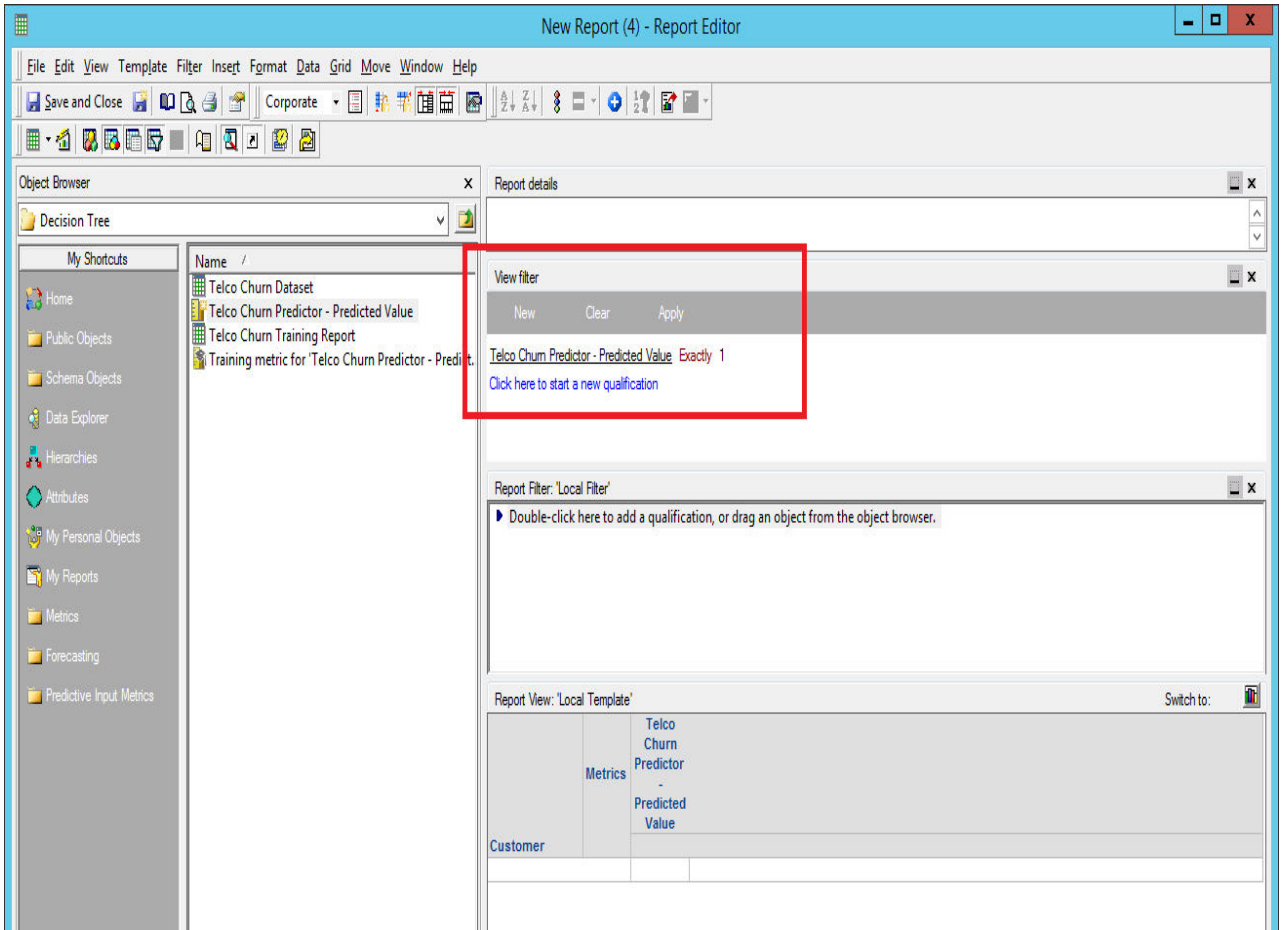
File Edit View Insert Format Data Grid Move Window Help

Save and Close

Report objects: Customer, Age Range, AvgMinOffPeak, AvgMinPeak, Dropped Calls, Gender, Helpdesk calls, Household Count, Income Bracket, Marital Status, Renewals, Telco Churn, Training metric for 'Telco Churn Predictor'

Report details: View filter

		Metrics											Training metric for 'Telco Churn Predictor'	
		AvgMinOffPeak	AvgMinPeak	Dropped Calls	Helpdesk calls	Renewals	Age Range	Gender	Household Count	Marital Status	Income Bracket	Telco Churn	Predicted Value'	
Customer														
Aaron	Ferrell	882	499	1	0	1	25 to 34	Male	2	Married	50K-60K	0	0	
Aasen	Beatrice	3,497	780	0	4	1	45 to 54	Female	Over 6	Previously Married	Over 100K	0	0	
Abbasi	Dwayne	363	690	0	0	1	55 and over	Male	4	Married	20K and Under	0	0	
Abdallah	Erling	503	77	0	0	1	25 to 34	Male	1	Single	70K-80K	0	0	
Abeles	Doyle	54	978	0	0	0	24 and under	Male	2	Married	60K-70K	0	0	
Abeys	Julien	486	765	1	1	1	35 to 44	Male	4	Married	Over 100K	0	0	
Abney	Baze	498	54	0	0	1	25 to 34	Female	1	Single	40K-50K	0	0	
Abrahamson	Galge	1,151	1,943	1	0	1	55 and over	Female	3	Single	70K-80K	0	0	
Abrams	Fredrick	3,716	5,650	4	7	0	24 and under	Male	5	Single	Over 100K	1	1	
Abriyelyan	Freddie	1,196	616	0	0	0	24 and under	Male	2	Single	50K-60K	0	0	
Abutouk	Erwin	2,795	1,678	2	3	0	35 to 44	Male	6	Married	70K-80K	1	1	
Ackerman	Ilene	2,195	2,841	1	3	0	24 and under	Female	5	Single	80K-90K	1	1	
Acquist	Frances	968	81	0	0	0	35 to 44	Female	3	Previously Married	40K-50K	1	0	



Training Metric Wizard - Select Type of Analysis

Select analysis-specific parameters.



Select type of analysis:

Forecasting numeric values _____

Linear Regression

Exponential Regression

Time Series

Classifying categorical values _____

Decision Tree

Logistic Regression

Grouping similar items _____

Cluster

Identifying frequent itemsets _____

Association

Logistic Regression uses Iteratively-Reweighted Least Squares (solved using Quasi-Newton) to create a classification model that predicts a categorical value (such as True/False, High/Medium/Low, etc.)

Model Specifications

No additional parameters are needed for this model.

Help

Cancel

< Back

Next >

Finish

Telco Churn Training Report

File Edit View Insert Format Data Grid Move Window Help

Save and Close

Report objects x Report details

Name

- Customer
 - Age Range
 - AvgMinOffPeak
 - AvgMinPeak
 - Dropped Calls
 - Gender
 - Helpdesk calls
 - Household Count
 - Income Bracket
 - Marital Status
 - Renewals
 - Telco Churn
 - Telco Churn Predictor - Predicted Value' (Logit)
 - Training metric for 'Telco Churn Predictor - Predicted Value' (Logit)

View filter

Customer		AvgMinOffPeak	AvgMinPeak	Dropped Calls	Helpdesk calls	Renewals	Age Range	Gender	Household Count	Marital Status	Income Bracket	Telco Churn	Training metric for 'Telco Churn Predictor - Predicted Value' (Logit)
Achmoody	Lois	352	4,805	1	4	1	55 and over	Female	Over 6	Single	60K-70K	0	0
Adrian	Maggie	258	89	0	0	1	55 and over	Female	1	Married	70K-80K	0	0
Agen	Merion	2,156	333	0	2	0	55 and over	Male	6	Married	60K-70K	1	1
Aikens	Noel	232	891	0	0	1	25 to 34	Male	4	Single	50K-60K	0	0
Ainsworth	Josh	425	490	0	0	0	55 and over	Male	1	Married	60K-70K	0	0
Alaverdyan	Marsha	430	158	0	0	1	45 to 54	Female	1	Single	60K-70K	0	0
Albon	Morven	964	338	0	1	0	55 and over	Male	2	Previously Married	40K-50K	0	1
Alksnis	Akeela	416	84	0	0	1	35 to 44	Female	5	Single	70K-80K	1	0
Allison	Teddy	572	80	0	0	1	55 and over	Male	5	Single	50K-60K	1	1
Amdur	Adam	1,209	688	1	1	1	55 and over	Male	4	Single	20K and Under	0	0
Andrewyuk	Jung	1,065	999	0	0	0	45 to 54	Male	5	Married	40K-50K	1	1
Bader	Irvin	916	1,263	0	1	0	55 and over	Male	1	Married	60K-70K	1	0
Baker	Carla	63	1,256	0	1	1	55 and over	Female	2	Single	50K-60K	1	0
Barker	Tabitha	775	906	0	1	0	25 to 34	Female	1	Single	70K-80K	1	1
Barnaby	Iedra	809	619	1	1	0	55 and over	Female	1	Previously Married	40K-50K	1	0
Barni	Gleta	890	5,244	0	1	1	55 and over	Female	3	Single	70K-80K	0	0

Model Variables Simulation Model Verification

View Information Quality Chart PMML

Segment: Top Level

Predicted Result	Actual Result	
	0	1
0	1001 (70.1%)	156 (10.9%)
1	53 (3.7%)	218 (15.3%)

Decision Tree

Model Variables Simulation Model Verification

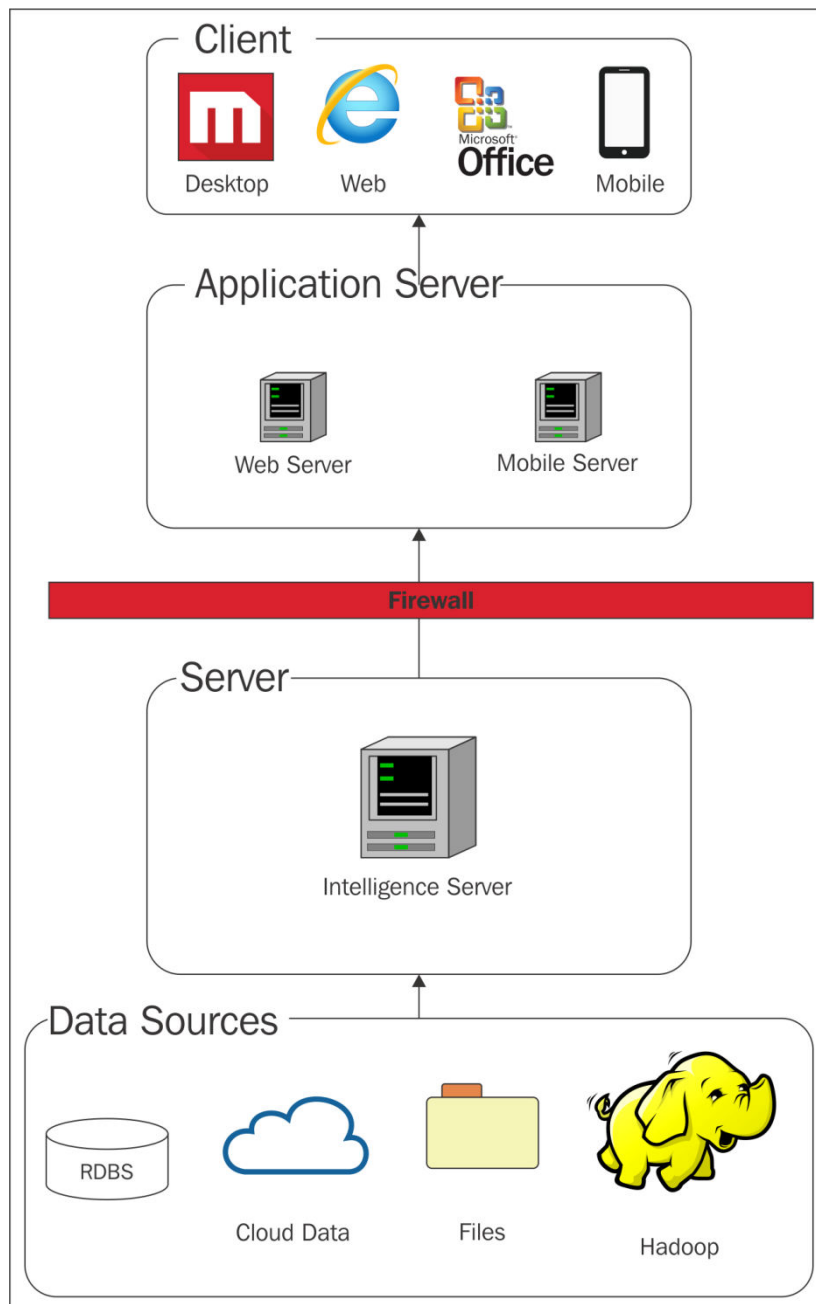
View Information Quality Chart PMML

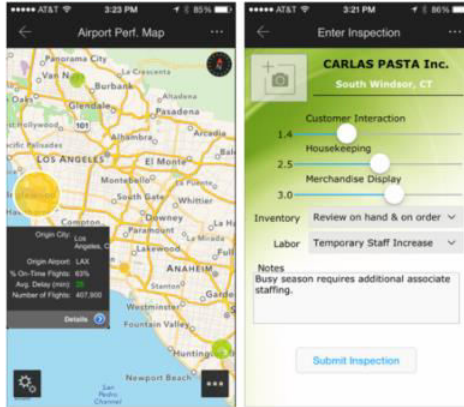
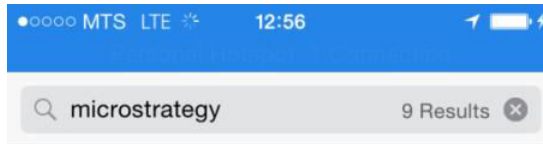
Segment: Top Level

Predicted Result	Actual Result	
	0	1
0	7155 (71.6%)	1241 (12.4%)
1	195 (2.0%)	1409 (14.1%)

Logistic Regression

Chapter 7: Accelerating Your Business with Mobile Analytics





Name	Date	Type	Size	Tags
CertificateServer.war	3/16/2016 1:20 AM	WAR File	13,014 KB	
MicroStrategyMobile.war	3/16/2016 1:17 AM	WAR File	119,451 KB	

```
[root@localhost bin]# ./shutdown.sh
Using CATALINA_BASE: /usr/local/tomcat7
Using CATALINA_HOME: /usr/local/tomcat7
Using CATALINA_TMPDIR: /usr/local/tomcat7/temp
Using JRE_HOME: /usr
Using CLASSPATH: /usr/local/tomcat7/bin/bootstrap.jar:/usr/local/tomcat7/bin/tomcat-juli.jar
[root@localhost bin]# ./startup.sh
Using CATALINA_BASE: /usr/local/tomcat7
Using CATALINA_HOME: /usr/local/tomcat7
Using CATALINA_TMPDIR: /usr/local/tomcat7/temp
Using JRE_HOME: /usr
Using CLASSPATH: /usr/local/tomcat7/bin/bootstrap.jar:/usr/local/tomcat7/bin/tomcat-juli.jar
Tomcat started.
```

192.168.81.134:8080/MicroStrategyMobile/servlet/mstrWebAdmin

Administrator Page

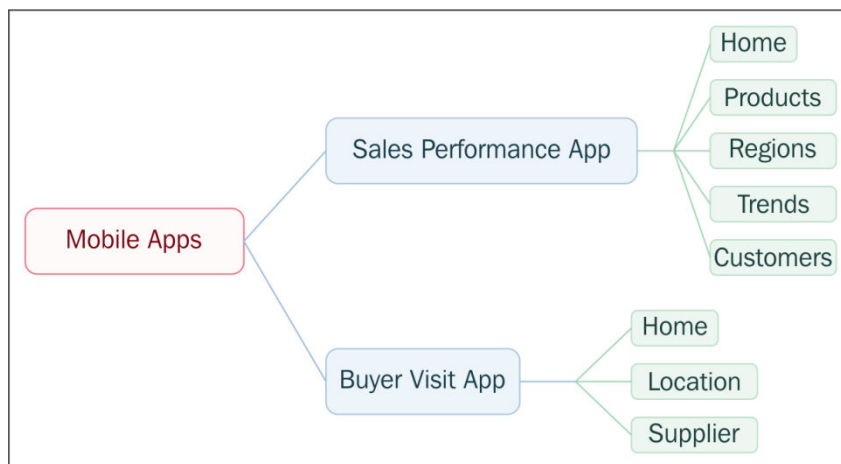
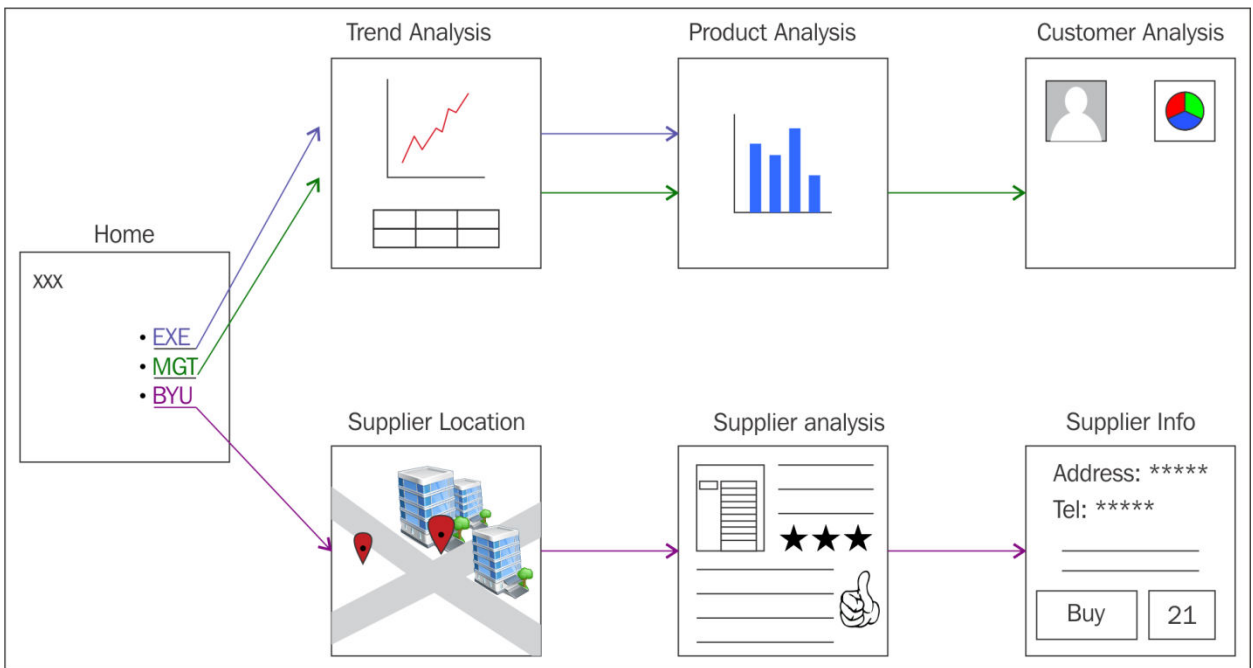
Intelligence Servers Diagnostics Security Other Configuration Mobile Configuration Help

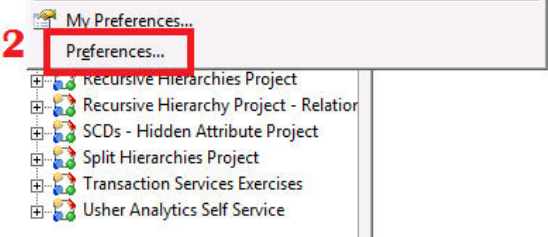
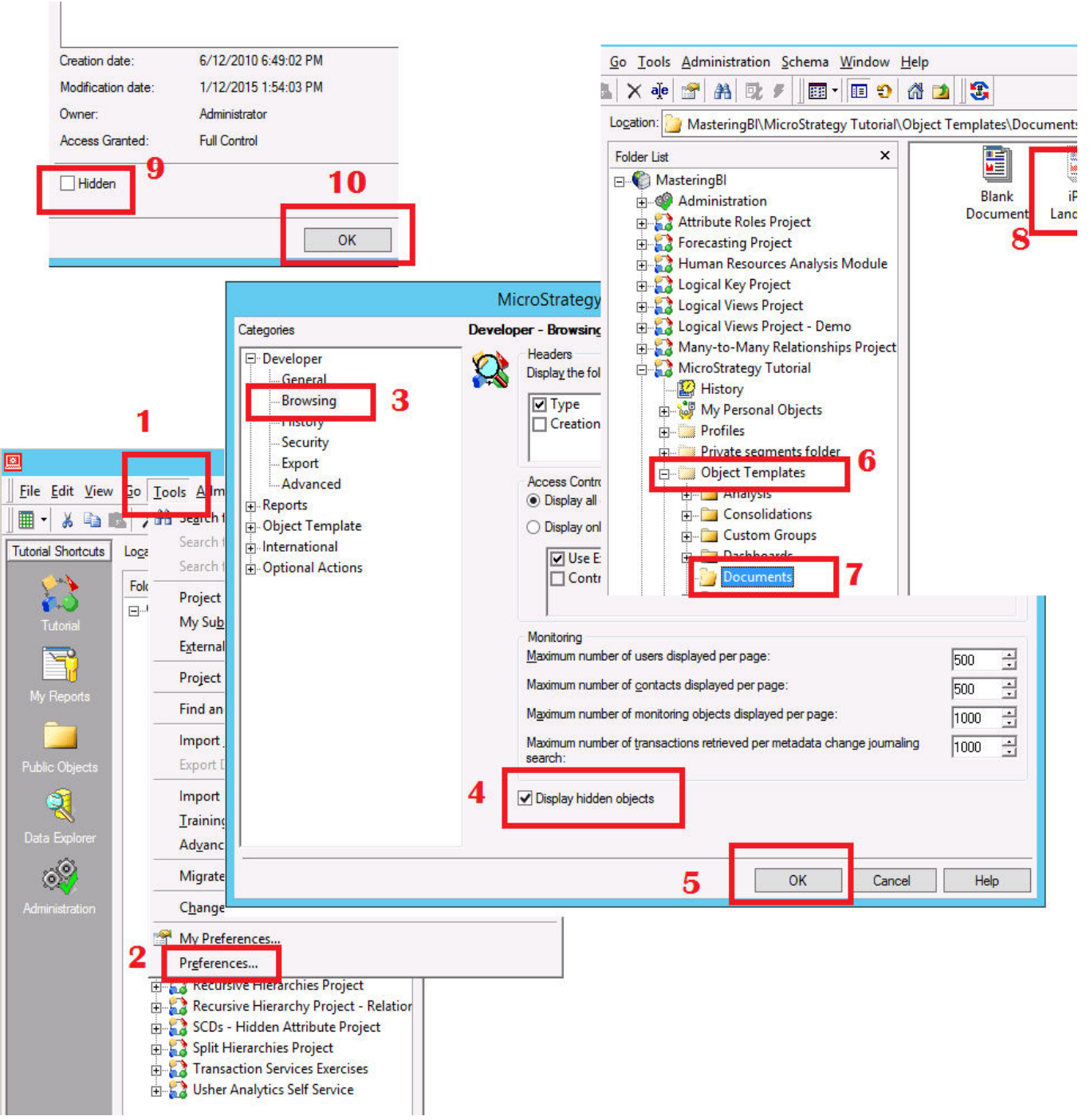
MOBILE SERVER

- Intelligence Servers
- Servers
- Default properties
- Diagnostics
- Configuration

Connected servers:

Cluster	Server name	Connect mode	Loaded	Maximum pool size	Action	Properties
1	LOCALHOST.LOCALDOMAIN	Automatically connect to Intelligence Server when Mobile Server or Intelligence Server is restarted	0	50	Disconnect	







Apply to all projects on the current MicroStrategy Intelligence Server (ENV-21249LAI0USE1.CUSTOMER.CLOUD.MICROSTRATEGY.COM) Close

PREFERENCES LEVEL

• **User Preferences**

• Project Defaults

PREFERENCES

• **General**

• Folder browsing

• Grid display

• Graph display

• Export Reports

• Print Reports (PDF)

• Drill mode

• Prompts

• Report Services

• Security

• E-mail Addresses

• File Locations

• Printer Location

• FTP Locations

• Dynamic address lists

• Office

[Change Password](#)

General

Default start page: Home Last document: Blank Document

Color Theme: Red

Language: Default Hide advanced options

Metadata: Default Data: Default

Number and Date Format: Default Intelligence Server: Default

Measurement Units: Pixels

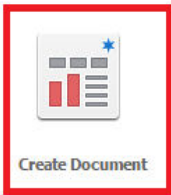
Time Zone: Default

Dynamic HTML: Use Dynamic HTML? Yes



Create Report

1



Create Document



Create Filter



MicroStrategy Tutorial > Create Document

View document in Design Mode

Dashboard-style Templates

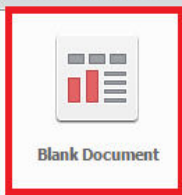


01 Blank Dashboard



12 Title and Four Contents

Document Templates



Blank Document

2

MicroStrategy Tutorial > Create Document

- DOCUMENT HOME
- TOOLS**
- INSERT
- DATA
- GRID

- New Document
- Import Document...
- Dataset Objects
 - Document Structure
 - Notes
 - Related Reports
- Grouping
- Alignment Grid
- Snap to Grid
- Ruler
- Sections...
- Pivot Buttons
- Sort Buttons
- Graph Zones
- Document Properties...**
- Document Details Page
- Manage views...

4

Properties

Page Setup

Page

Margins

Layout Properties

Layout

Color and Borders

Sections

Mobile

Advanced

Document Properties

Document

Export

Table of Contents

Watermark

Mobile

Delivery

Advanced

Sections

Sections Display:

Page Header

Document Header

Detail Header

Detail

Detail Footer

Document Footer

Page Footer

Display All Sections

Sections docked (Mobile only):

Properties

Page Setup

Page

Margins

Layout Properties

Layout

Color and Borders

Sections

Mobile

Page

Paper Size:

Custom

Width: 2048 Pixels

Height: 1536 Pixels

Scaling

Adjust to: 100 %

Fit to: 1 pages wide by 1

5

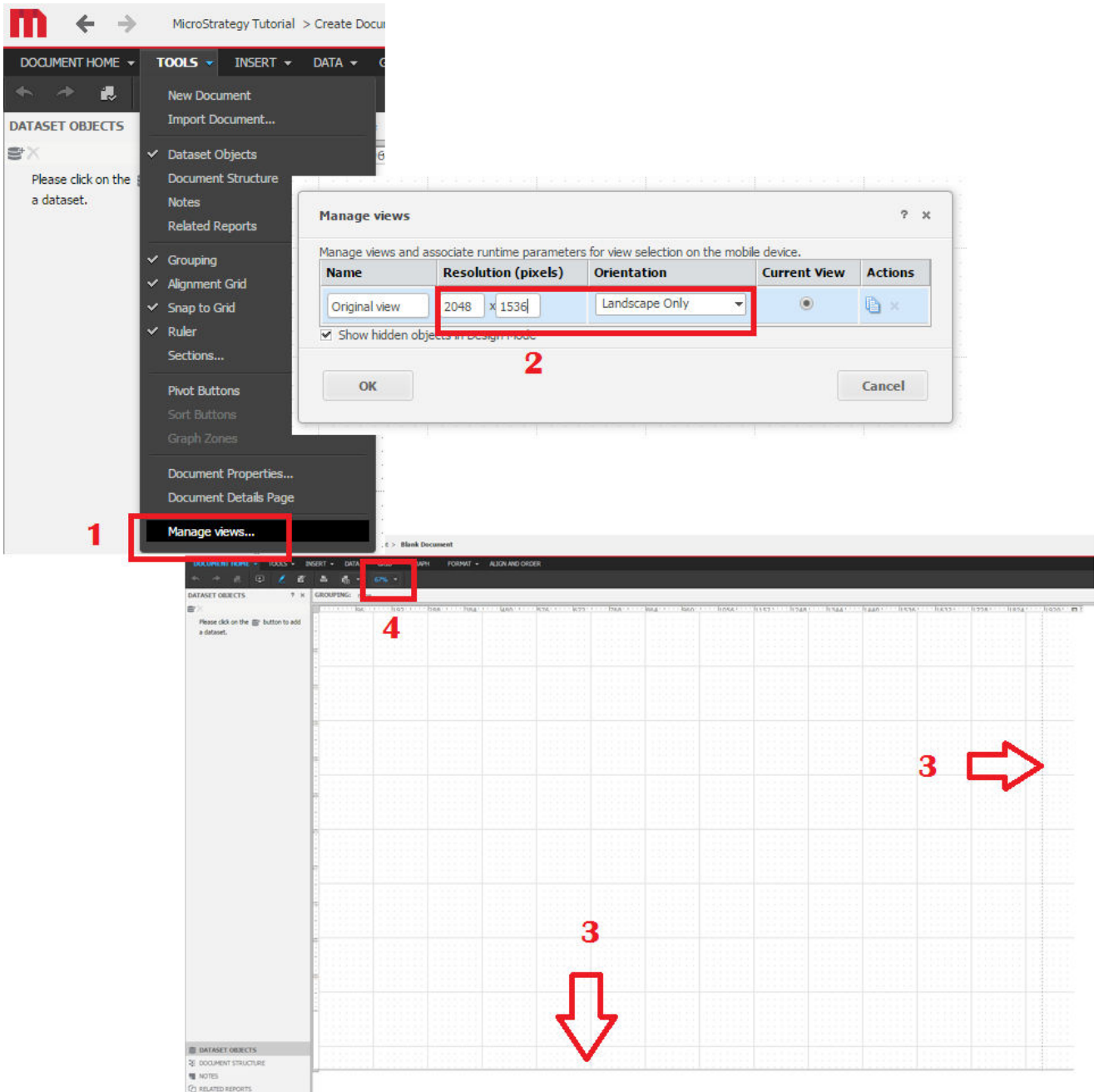
6

7

Orientation:

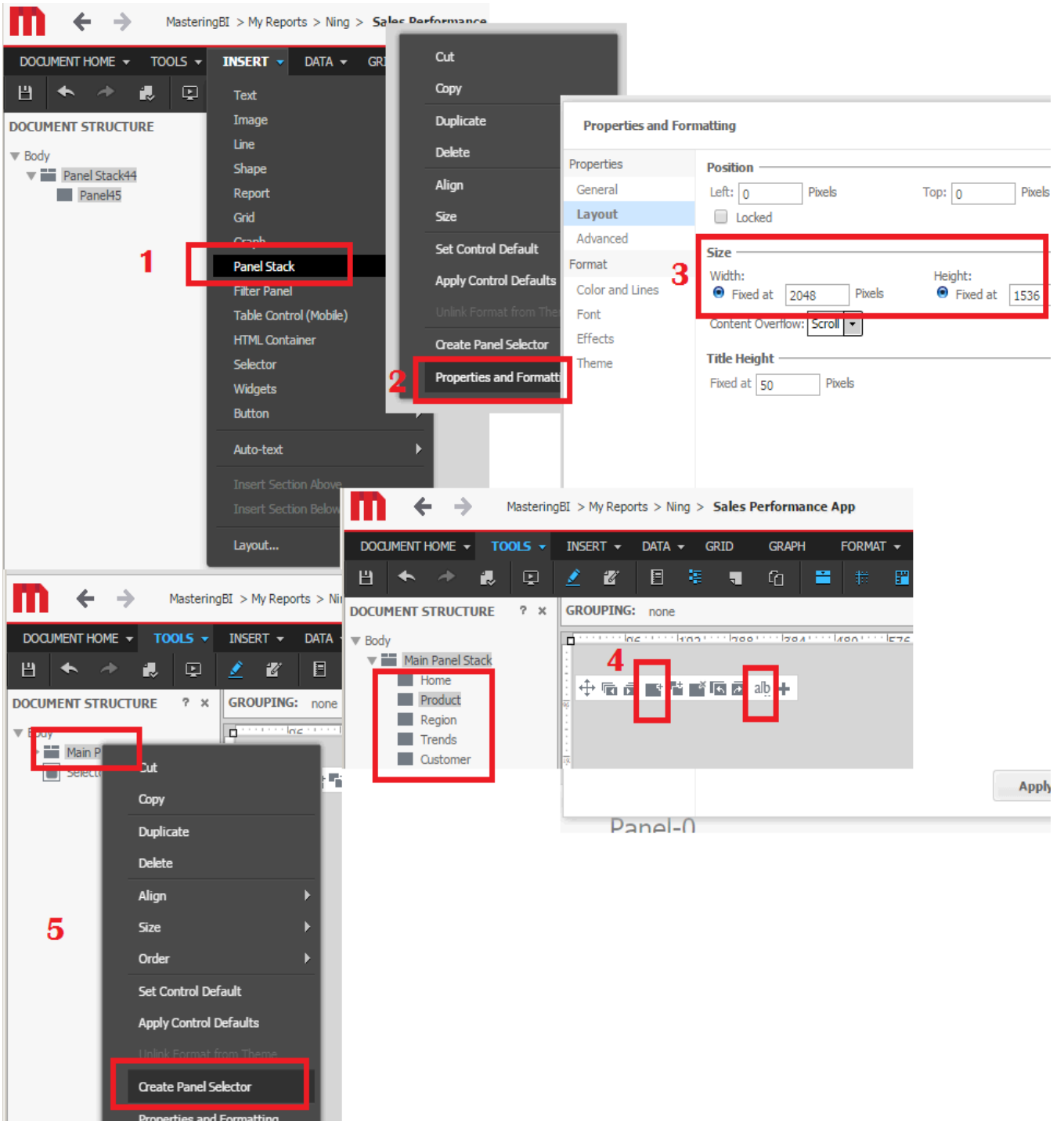
Portrait

Landscape



File Explorer window showing the contents of a folder named 'Data_Ch7'.

Name	Date modified	Type	Size
Brand Performance by Region and Year.csv	4/25/2016 4:08 AM	Microsoft Excel Com...	665 KB
Customer Income Analysis by Geography.csv	4/25/2016 4:22 AM	Microsoft Excel Com...	2,632 KB
Revenue Costs and Units Sold by Call Center...	4/25/2016 4:17 AM	Microsoft Excel Com...	5,991 KB



Properties and Formatting ? x

Properties

- General
- Layout**
- Selector
- Advanced

Format

- Color and Lines
- Font
- Alignment
- Effects
- Theme

Position

Left: Pixels Top: Pixels

Locked

Size

Width: Fixed at Pixels Height: Fixed at Pixels

Fit to contents

Title Height

Fixed at Pixels

Selector

DHTML Style: Flash Style:

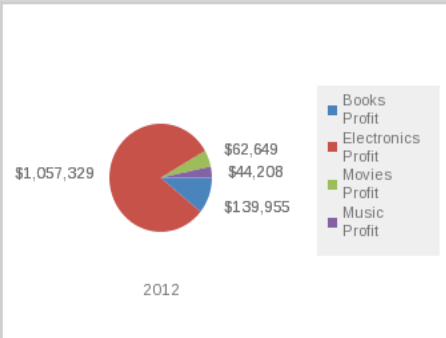
7

6

Final Result

Home Product Region Trends Customer

(All) 2012 2013 2014

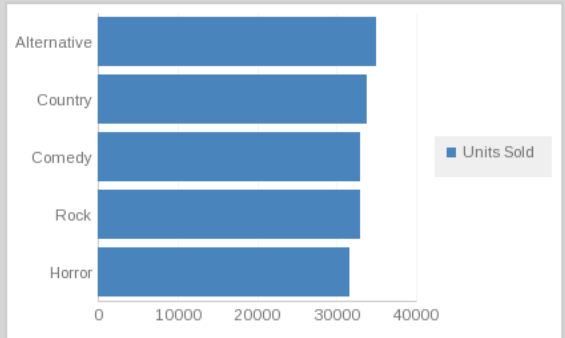
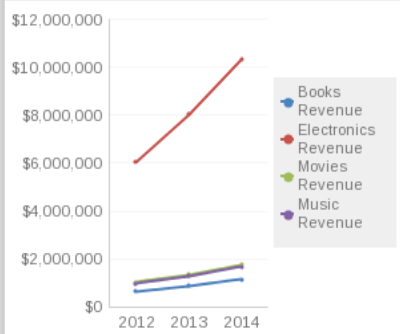


Overall Profits: \$5,293,604

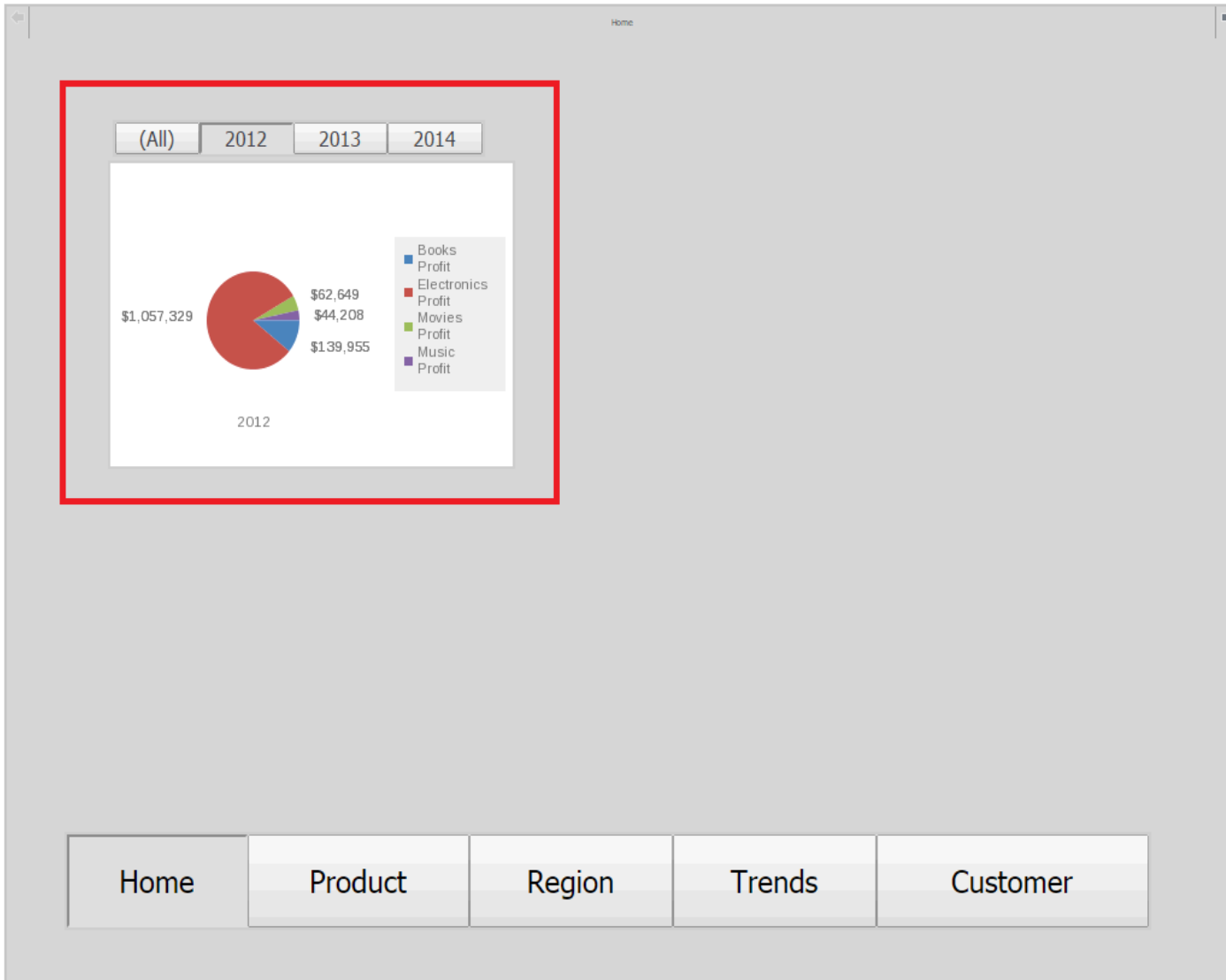
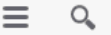
Units Sold: 465,844

Revenue: \$11,302,338

(All)
Books
Electronics
Movies
Music



Home Product Region Trends Customer



DOCUMENT HOME TOOLS INSERT DATA

Dataset Objects

- Brand Performance by Region
 - Brand
 - Category
 - Customer Region
 - Year
 - Profit
 - Revenue
 - Row Count - Brand Performance
- Customer Income Analysis by Ge...
- Customer Latitude

Grid

Year	Category	<Category>
<Year>		

Year-0

Category	<Category>
	Profit
	<Profit>

Sort Grid...
Show Totals
Edit Totals...
Edit View Filter...
Insert Metric
Use as Selector
Select Targets
Create Selector Control
Move
Keep on grid

ting

osition

Left: 176 Pixels Top: 128 Pixels

ize

Width: Fixed at 613.99999 Pixels Height: Fit to contents

title Height

Fixed at 19.200000 Pixels

elect

HTML Style: Button Bar Flash Style: Automatic

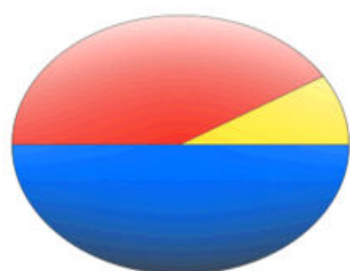
Orientation: Horizontal

- Allow multiple selections
- Change Selection on Mouse Over (Flash Only)
- Make all items the same width
- Export selector to PDF as shown on screen

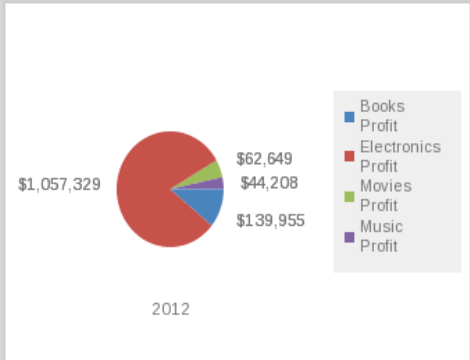
GRAPH FORMAT ALIGN AND ORDER

Pie Pie

5



(All) 2012 2013 2014



Home Product Region Trends Customer

MasteringBI > My Reports > Ning > Sales Perform

DOCUMENT HOME TOOLS **INSERT** DATA GRID GRA

DATASET OBJECTS

- Brand Performance by Region
 - Brand
 - Category **1**
 - Customer Region
 - Year
 - Profit
 - Revenue
 - Row Count - Brand Perform
- Customer Income Analysis by Ge.
 - Customer Latitude
 - Customer Longitude
 - Income Bracket
 - Region
 - Year
 - Avg Revenue per Customer
 - Revenue
 - Row Count - Customer Inco
 - Transactions Per Customer
- Revenue Costs and Units Sold b.
 - Call Center
 - Category
 - Month

Text
Image
Line
Shape
Report
Grid
Graph
Panel Stack
Filter Panel
Table Control (Mobile)
HTML Container
Selector
Widgets
Button
Auto-text
Insert Section
Insert Section
Layout...

Category	Year	<Year> Revenue
<Category>	2	<Revenue>

Category0

Category

Year

<Year>

Revenue

Sort Grid...
Use as Selector
Select Targets
Create Selector Control

3

Properties and Formatting

Properties
General
Layout
Selector
Advanced
Format
Color and Lines
Font
Alignment
Effects
Theme

Position

Left: 70 Pixels Top: 720 Pixels

Locked

Size

Width: Fixed at 154.00000 Pixels Fixed at 43.2 Pixels Fit to contents

Height: Fixed at 43.2 Pixels Fit to contents

Title Height

Fixed at Pixels

Selector

DHTML Style: Listbox Flash Style: Automatic

Orientation: Drop-down

Allow Slider

Change

Make

Export se

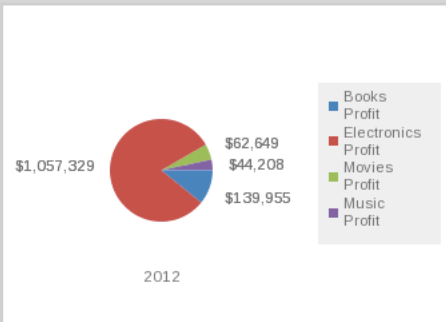
Listbox

Button Bar
Radio Buttons
Link Bar
Check Boxes
Search Box

4

5

(All) 2012 2013 2014

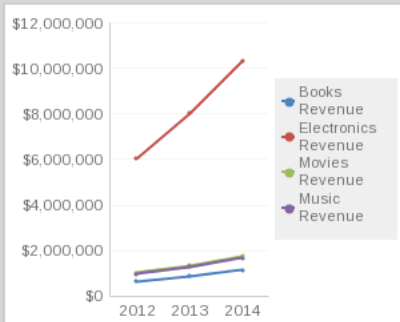


Overall Profits: \$5,293,604

Units Sold: 465,844

Revenue: \$11,302,338

(All)
Books
Electronics
Movies
Music



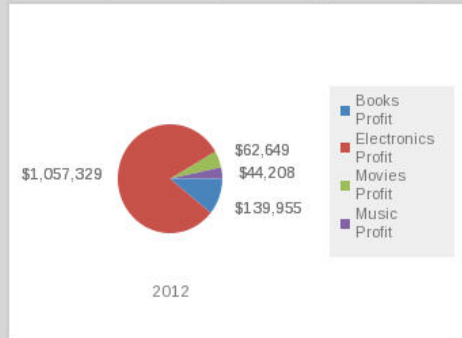
Home Product Region Trends Customer

(All) 2012 2013 2014

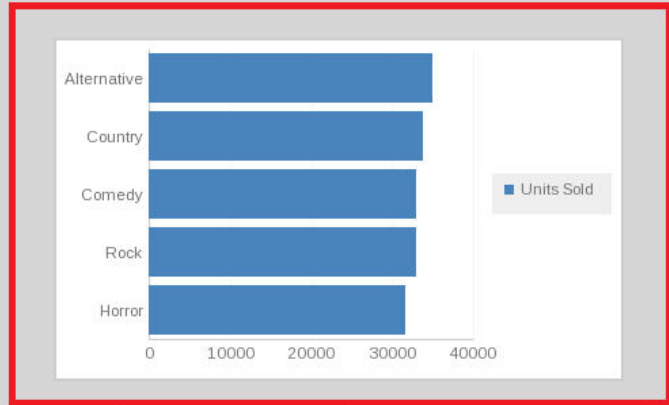
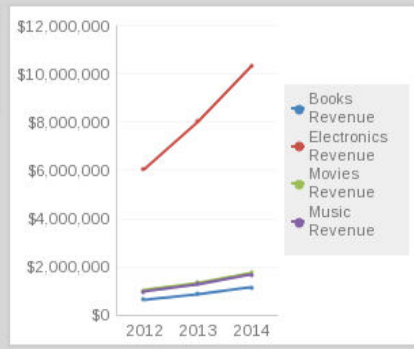
Overall Profits: \$5,293,604

Units Sold: 465,844

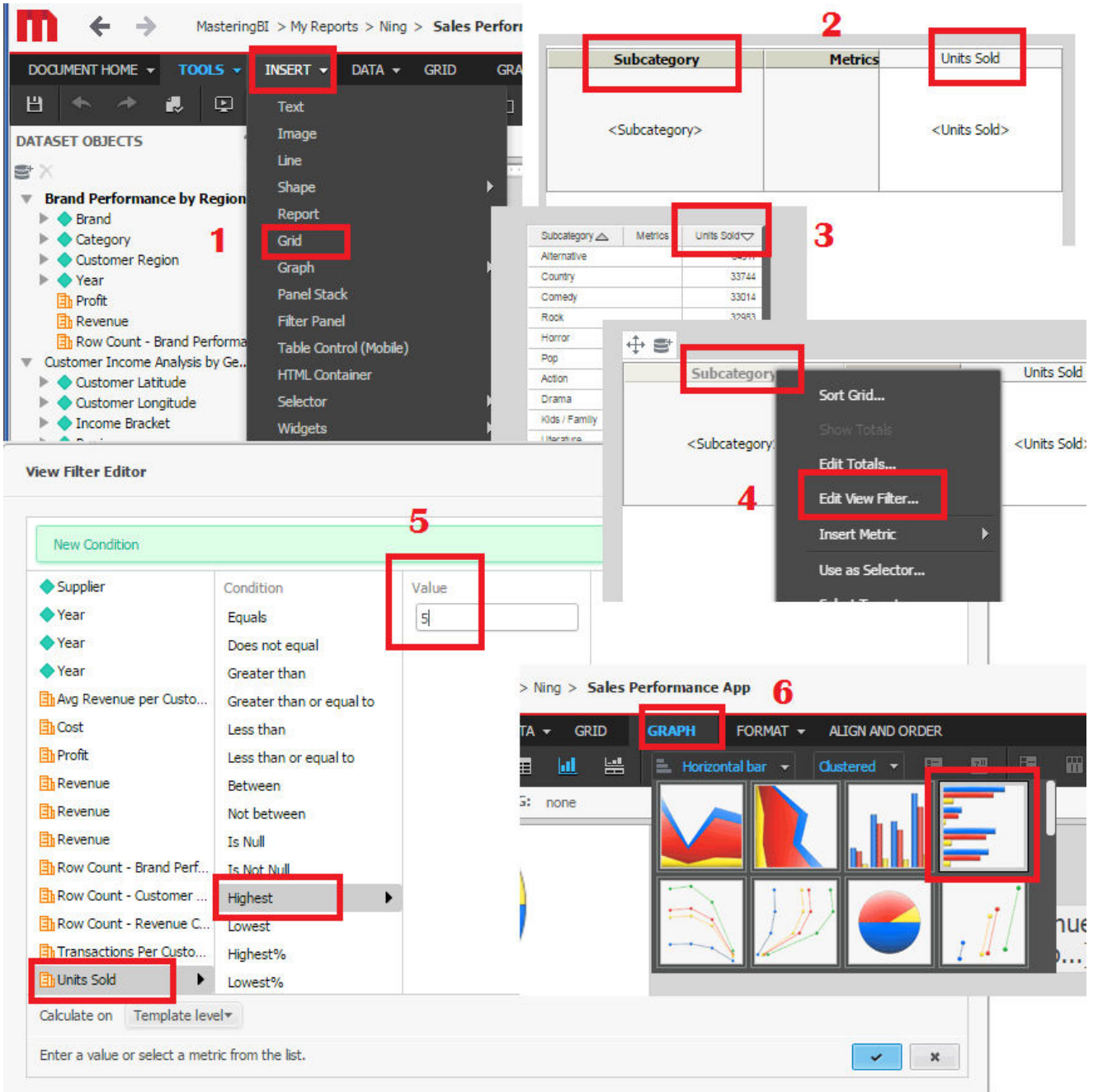
Revenue: \$11,302,338



(All)
Books
Electronics
Movies
Music



Home Product Region Trends Customer

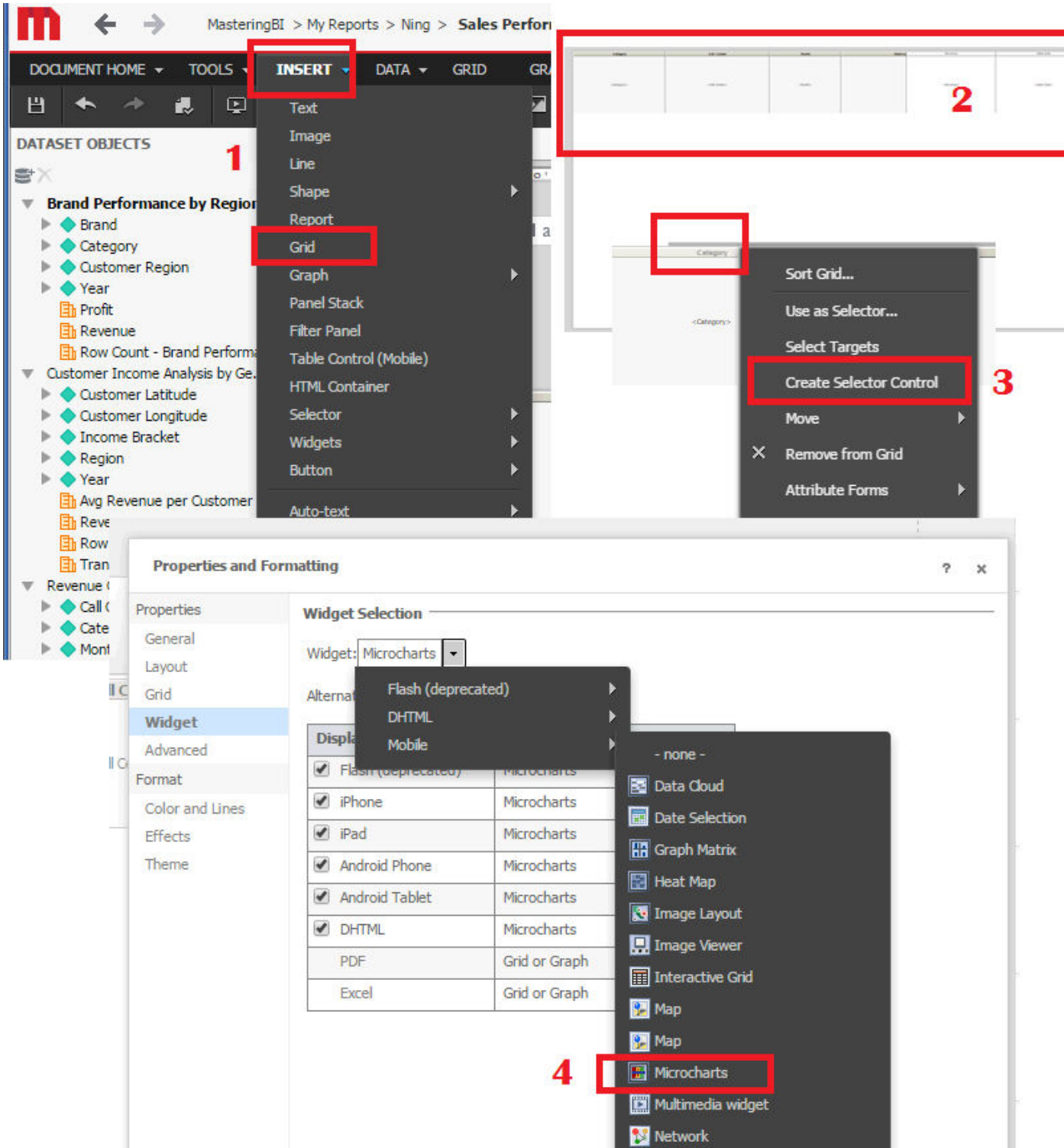


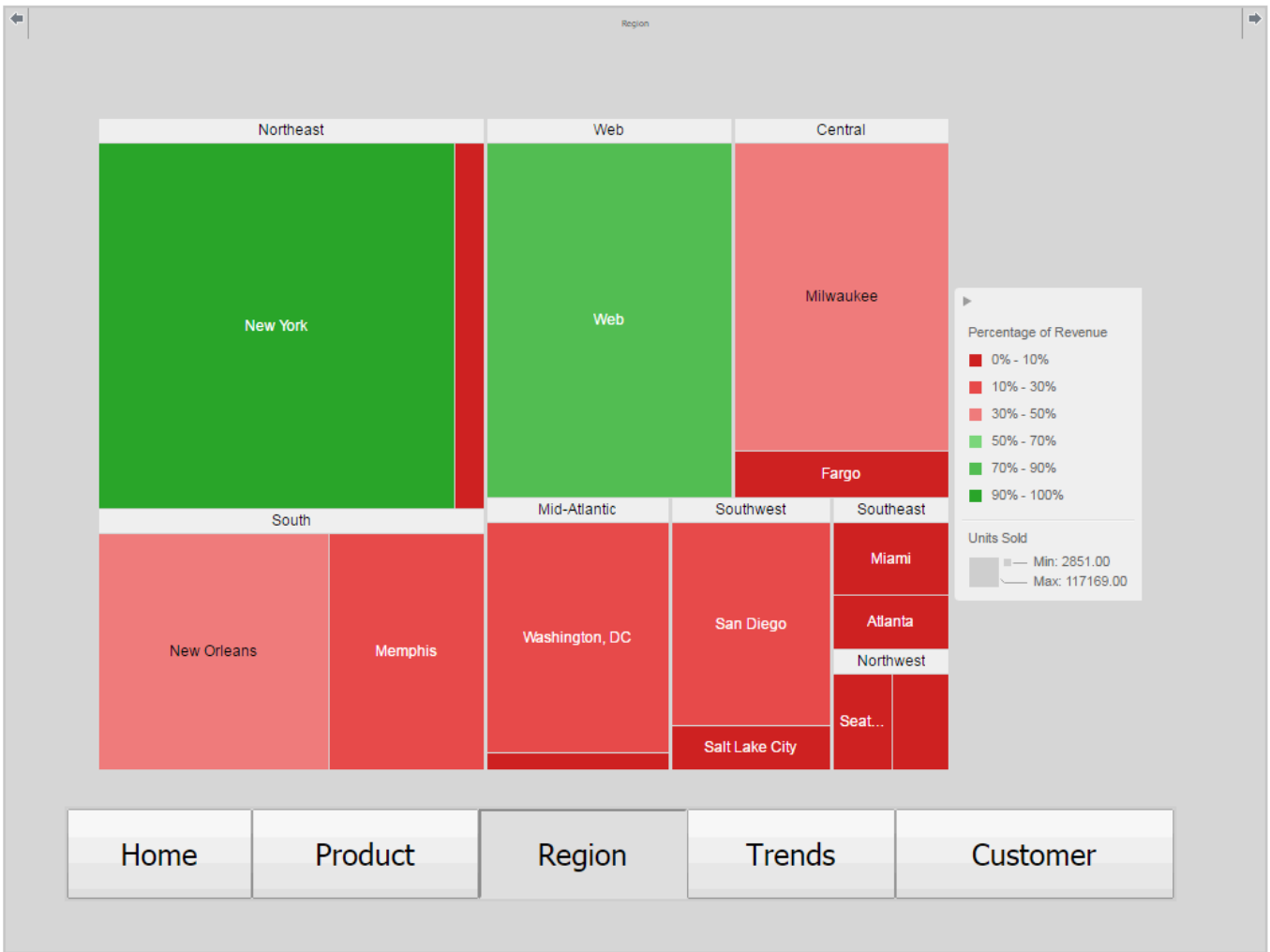


- (All)
- Books**
- Electronics
- Movies
- Music

Category	Call Center	[Sparkline]	Units
Books	Atlanta		
Books	Boston		
Books	Charleston		
Books	Fargo		
Books	Memphis		
Books	Miami		
Books	Milwaukee		
Books	New Orleans		
Books	New York		
Books	Salt Lake City		
Books	San Diego		
Books	San Francisco		
Books	Seattle		
Books	Washington, DC		
Books	Web		

- Home
- Product**
- Region
- Trends
- Customer





DOCUMENT STRUCTURE

- Body
 - Main Panel Stack
 - Home
 - Product
 - Region** 1
 - Trends
 - Customer
 - Selector51

INSERT DATA GRID GRAPH FORMAT ALIGN AND ORDER

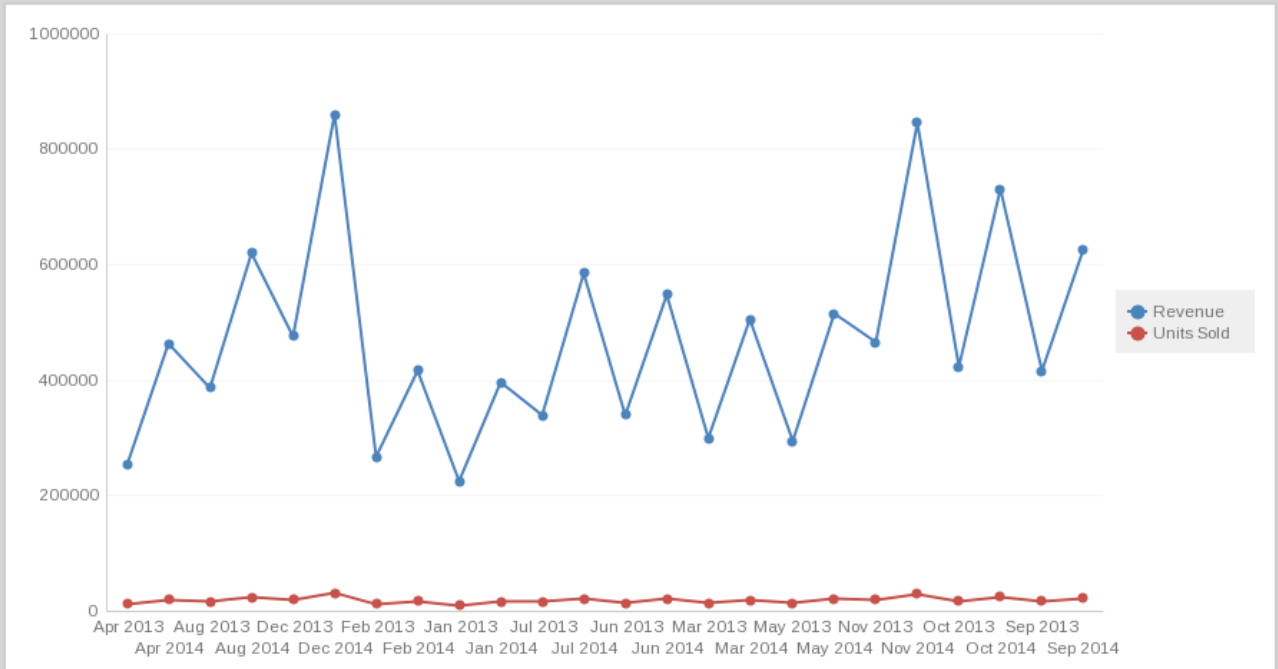
- Text
- Image
- Line
- Shape
- Report
- Grid
- Graph
- Panel Stack
- Filter Panel
- Table Control (Mobile)
- HTML Container
- Selector
- Widgets**
- Button
- Auto-text
- Insert Section Above
- Insert Section Below
- Layout...

- Flash (deprecated)
- DHTML
- Mobile**

- Data Cloud
- Date Selection
- Graph Matrix
- Heat Map**
- Image Layout

3

Region	Call Center	Metrics	Units Sold	Revenue
<Region>	<Call Center>		<Units Sold>	<Revenue>



- Home
- Product
- Region
- Trends
- Customer

MasteringBI > My Reports > Ning > Sales Performance App

DOCUMENT HOME TOOLS INSERT DATA GRID GRAPH FORMAT ALIGN AND ORDER

DOCUMENT STRUCTURE

- Body
 - Main Panel Stack
 - Home
 - Product
 - Region
 - 1 Trends**
 - Customer
 - Selector51

Text
Image
Line
Shape
Report
Grid
Graph
Panel Stack
Filter Panel
Table Control (Mobile)
HTML Container
Selector
Widgets
Button
Auto-text
Insert Section Above
Insert Section Below
Layout...

Flash (deprecated)
DHTML
Mobile

- Data Cloud
- Date Selection
- Graph Matrix
- Heat Map
- Image Layout
- Image Viewer
- Interactive Grid
- Map
- Map
- Microcharts
- Multimedia widget
- Network
- Photo Uploader
- RSS Reader
- Survey
- Timeline
- 2 Time Series**

3

Month	Metrics	Revenue	Units Sold

MasteringBI > My Reports > Ning > Sales Performance App

DOCUMENT HOME TOOLS INSERT DATA GRID GRAPH FORMAT ALIGN AND ORDER

Text

Zip Code	Customer Latitude	Customer Longitude	Metrics	Avg Revenue per Customer	Transactions Per C
<Zip Code>	<Customer Latitude>	<Customer Longitude>	3	<Avg Revenue per Customer>	<Transactions Per CL

DOCUMENT STRUCTURE

- Body
 - Main Panel
 - Home
 - Product
 - Region
 - Trends
 - Customer
 - Selector51

1

- Widgets
- Flash (deprecated)
- DHTML
- Mobile

Map Properties

Grids used on the map

GridGraph82

Marker Style / Mode

- Use image markers
- Use bubble markers
- Use density maps
- Use as a path on the map

Balloon Push Pin

Apply color formatting to the map

Select Location

Use attribute or form: Use Attribute

Select data type: Latitude / Longitude

Select latitude: Customer Latitude

Select longitude: Customer Longitude

Selection display attribute: Zip Code

For repeated rows, display only one marker for same location

Select Information Window style (Mobile only)

Display Info Window from document layout

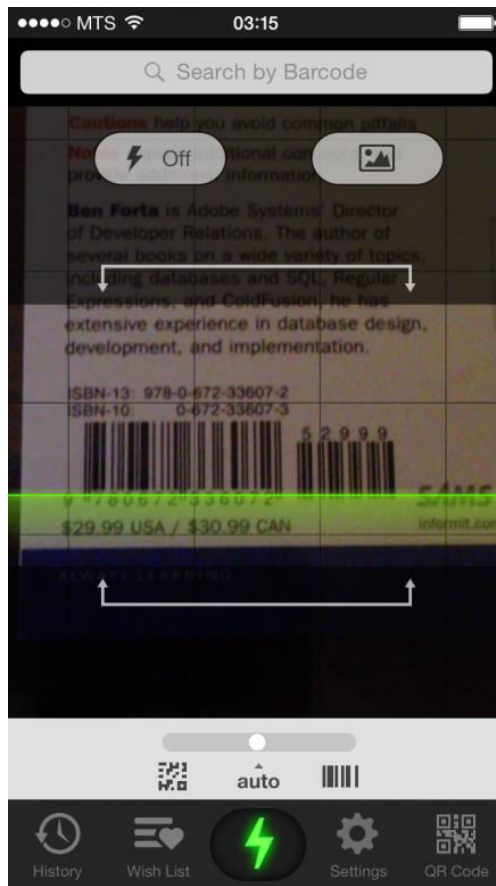
Affinity Line Options

Display Affinity Lines/Arcs

4

- Data Cloud
- Date Selection
- Graph Matrix
- Heat Map
- Image Layout
- Image Viewer
- Interactive Grid
- Map

2



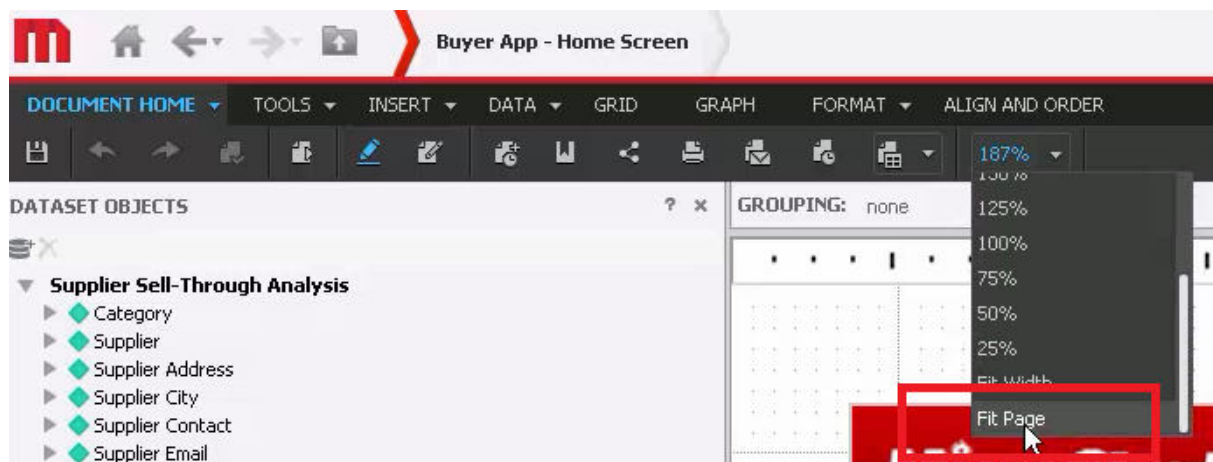
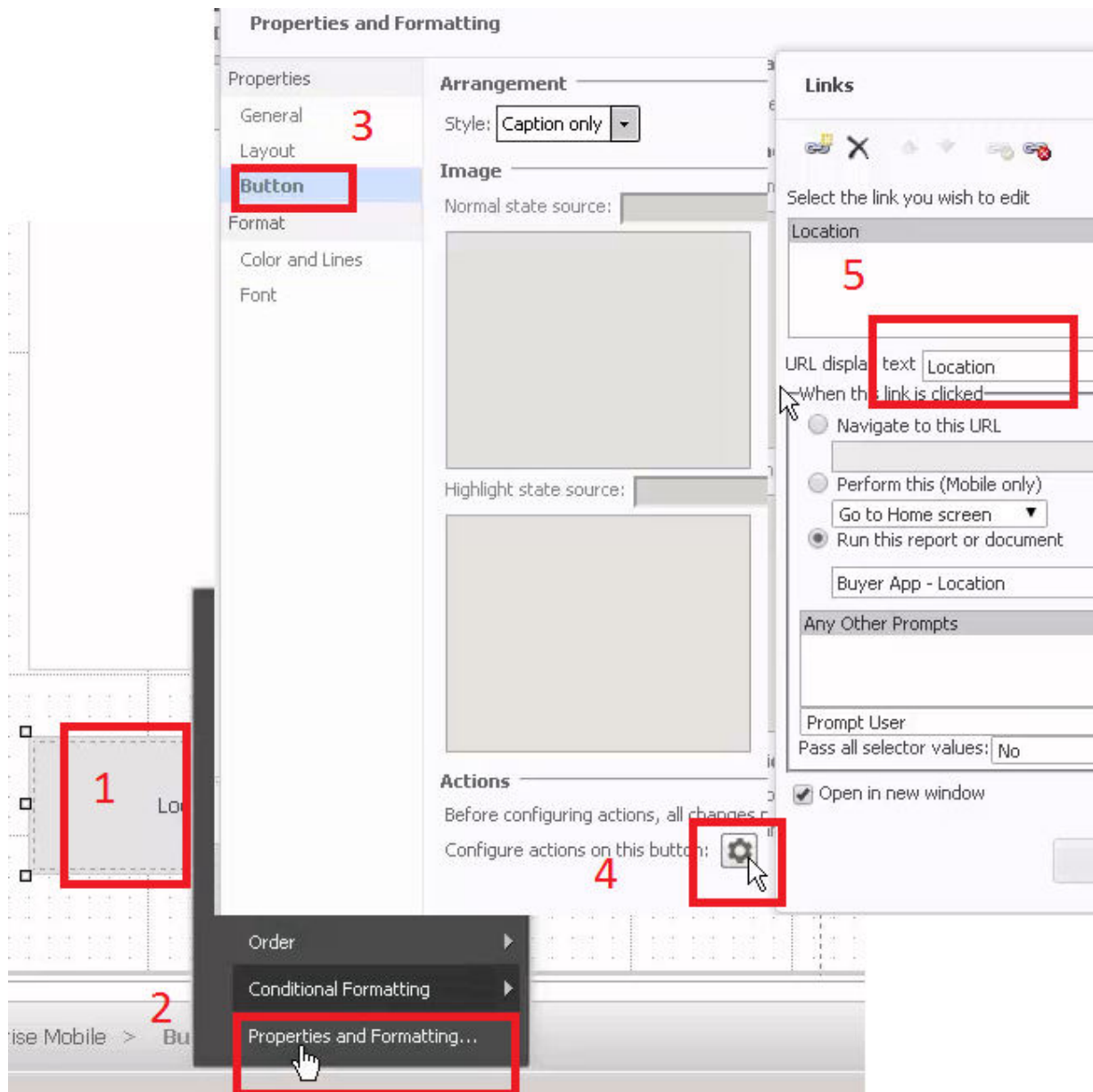
Manage views [?] [X]

Manage views and associate runtime parameters for view selection on the mobile device.

Name	Resolution (pixels)	Orientation	Current View	Actions
iPad Portrait View	768 x 1024	Portrait Only	<input type="radio"/>	[Icon] [X]
iPad Landscape Vie	1024 x 768	Landscape Only	<input type="radio"/>	[Icon] [X]
iPhone view	960 x 640	Portrait Only	<input checked="" type="radio"/>	[Icon] [X]

Show hidden objects in Design Mode

OK Cancel





Enterprise Analytics

Access, analyze, and deploy insights gained from your enterprise data using MicroStrategy's comprehensive analytics platform.

MicroStrategy Web

Access MicroStrategy Web to build anything from analytical reports to mobile applications.

MicroStrategy Web Administration

Administrate the MicroStrategy Web governing, access, and preferences settings.



Enterprise Security

Leverage cutting-edge Usher technology to grant or revoke system access, as well as report on system usage.

Network Manager

Provision Usher badges for new system users. Grant or revoke system access.

Usher Analytics

Analyze system access data to identify usage trends and exceptions.

Usher Professional



Enterprise Mobile

Empower users to consume enterprise data insights while on the move. Enable administrators to monitor system access remotely.

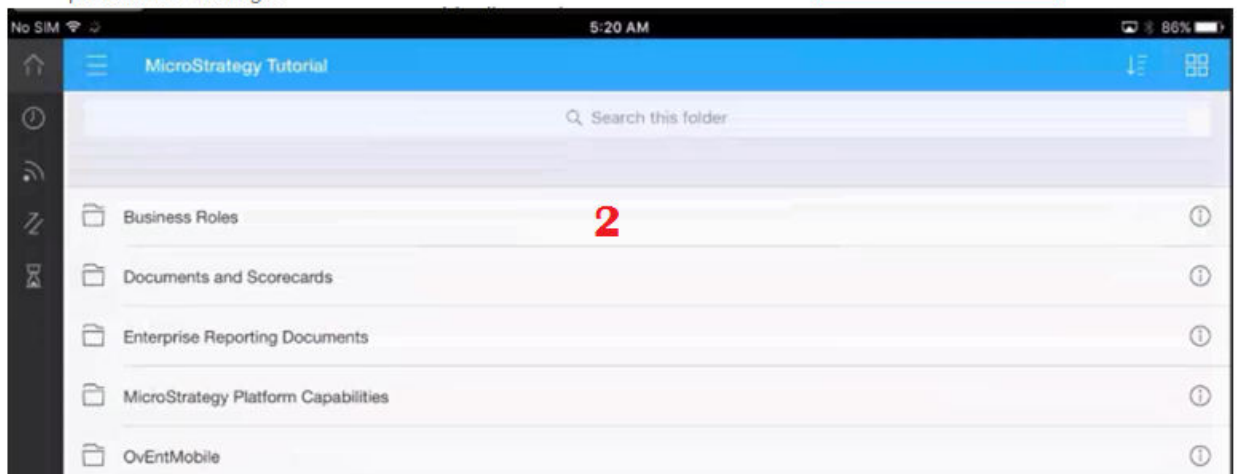
MicroStrategy Mobile

Deploy insights built on top of your enterprise data sources to end users worldwide.

Download

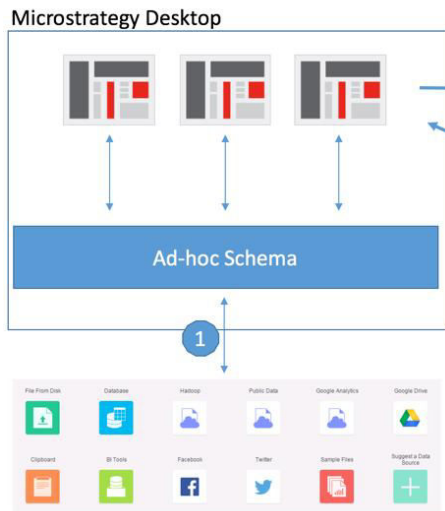
Configure

1

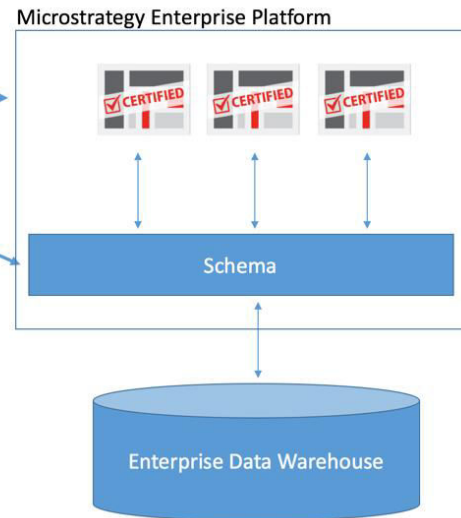


Chapter 8: Data Discovery with MicroStrategy Desktop

Decentralized BI



Centralized BI



1. Create a Prototype

Create an ad hoc schema using the Data Import tool to validate the concepts, the data, and the metrics you want to build on top of your dataset(s)

2. Make a Decision

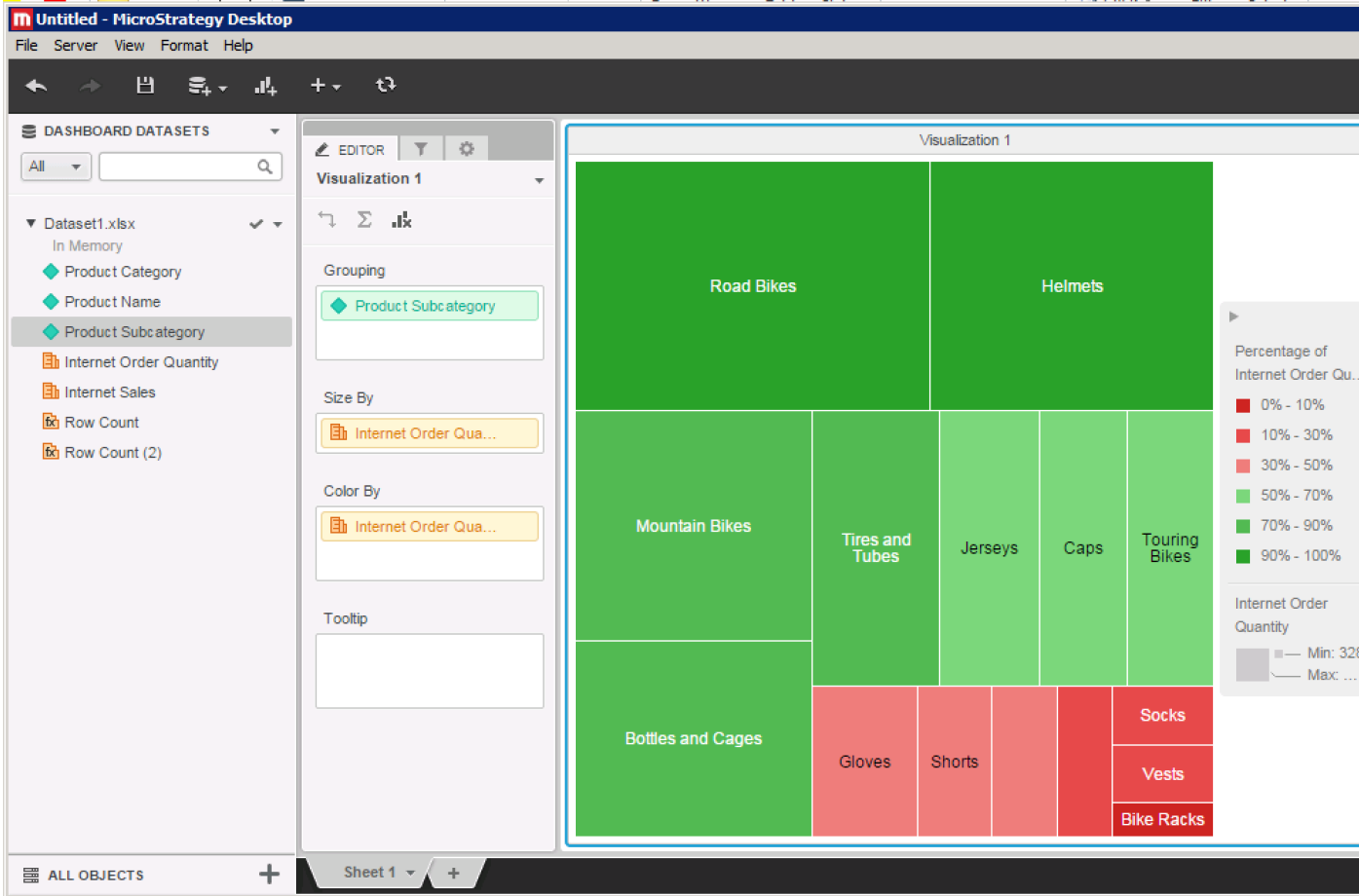
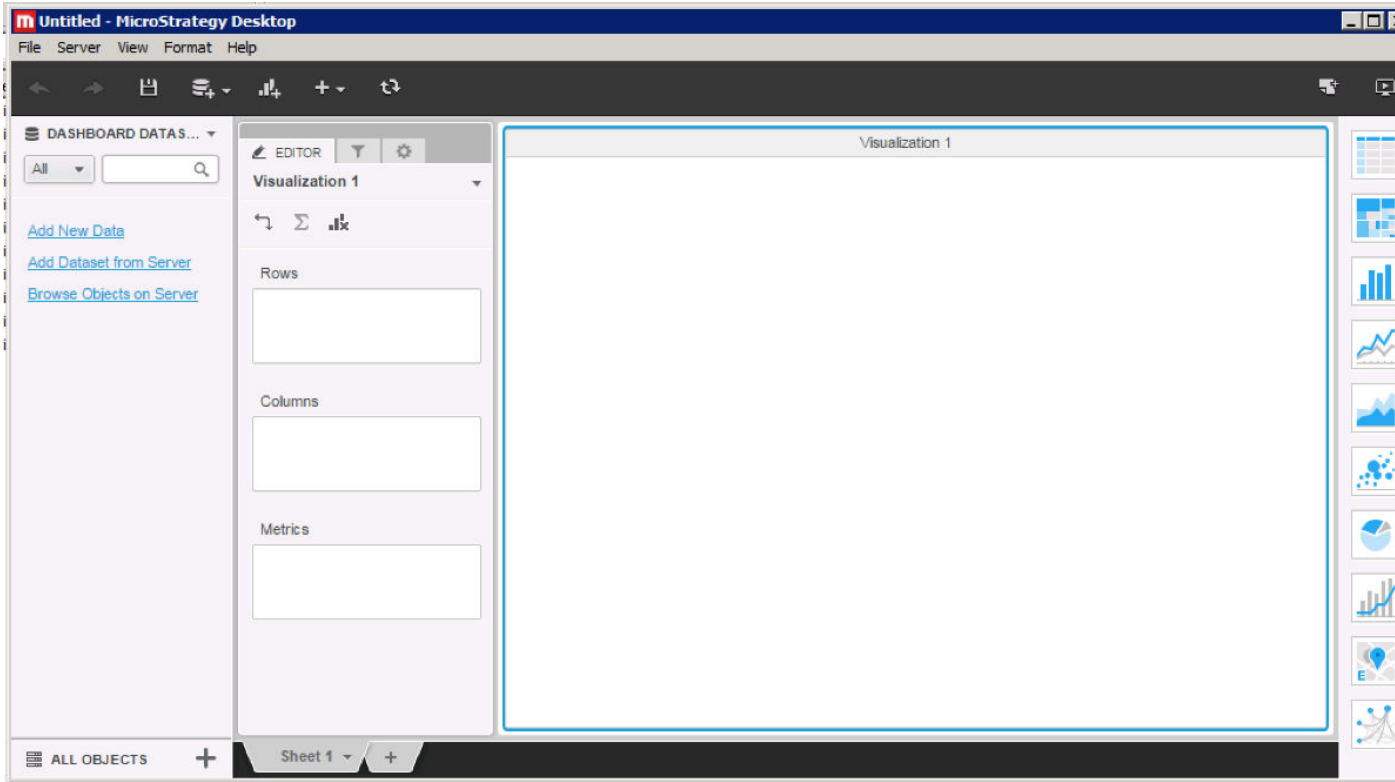
Decide with stakeholders whether this data and these objects are worth incorporating into your company's single version of the truth

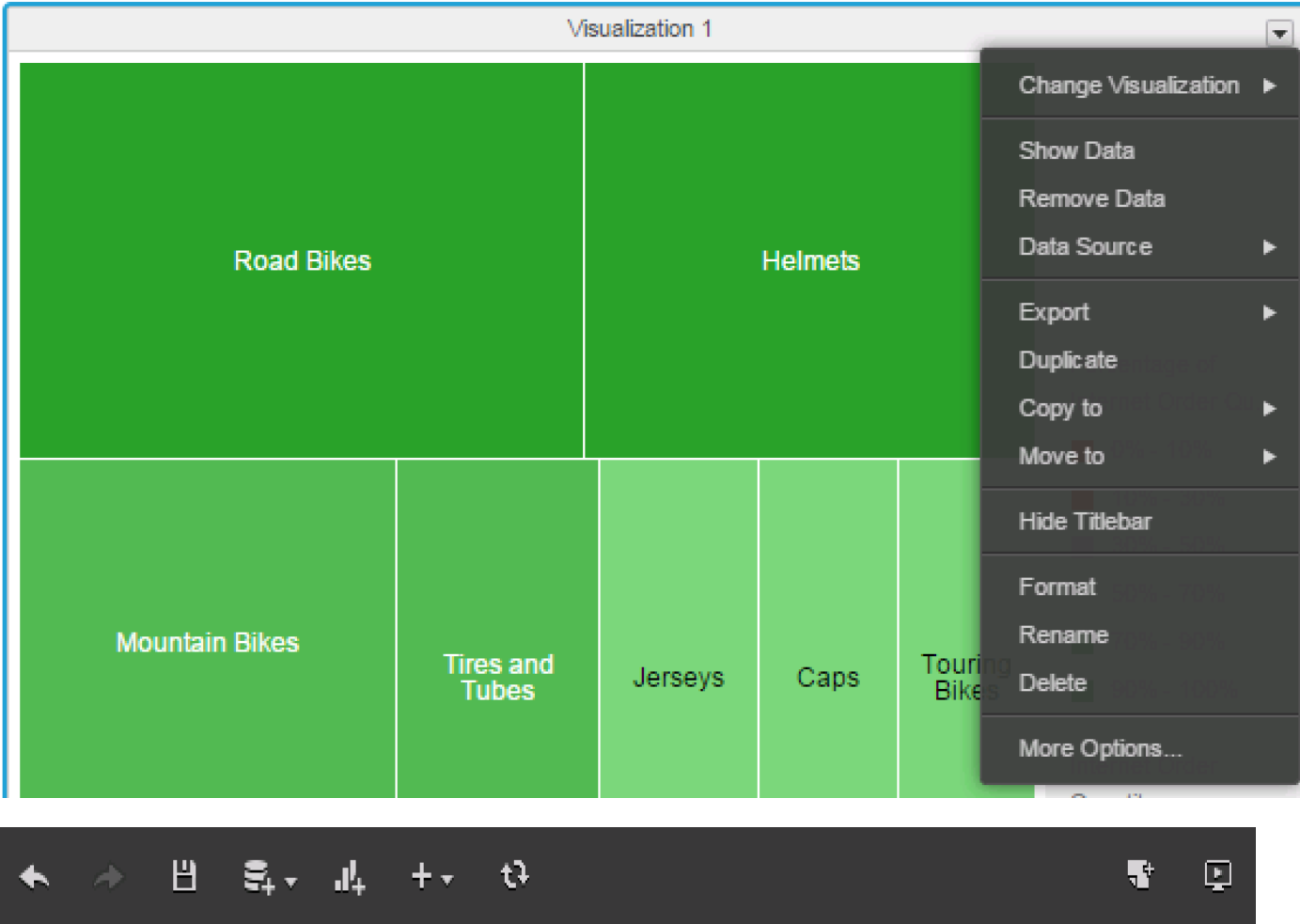
3a. Add to Modeled Schema
Add this data and the related objects to your modeled schema

3b. Use Cube for Analysis
Use the cube as you would any other project dataset

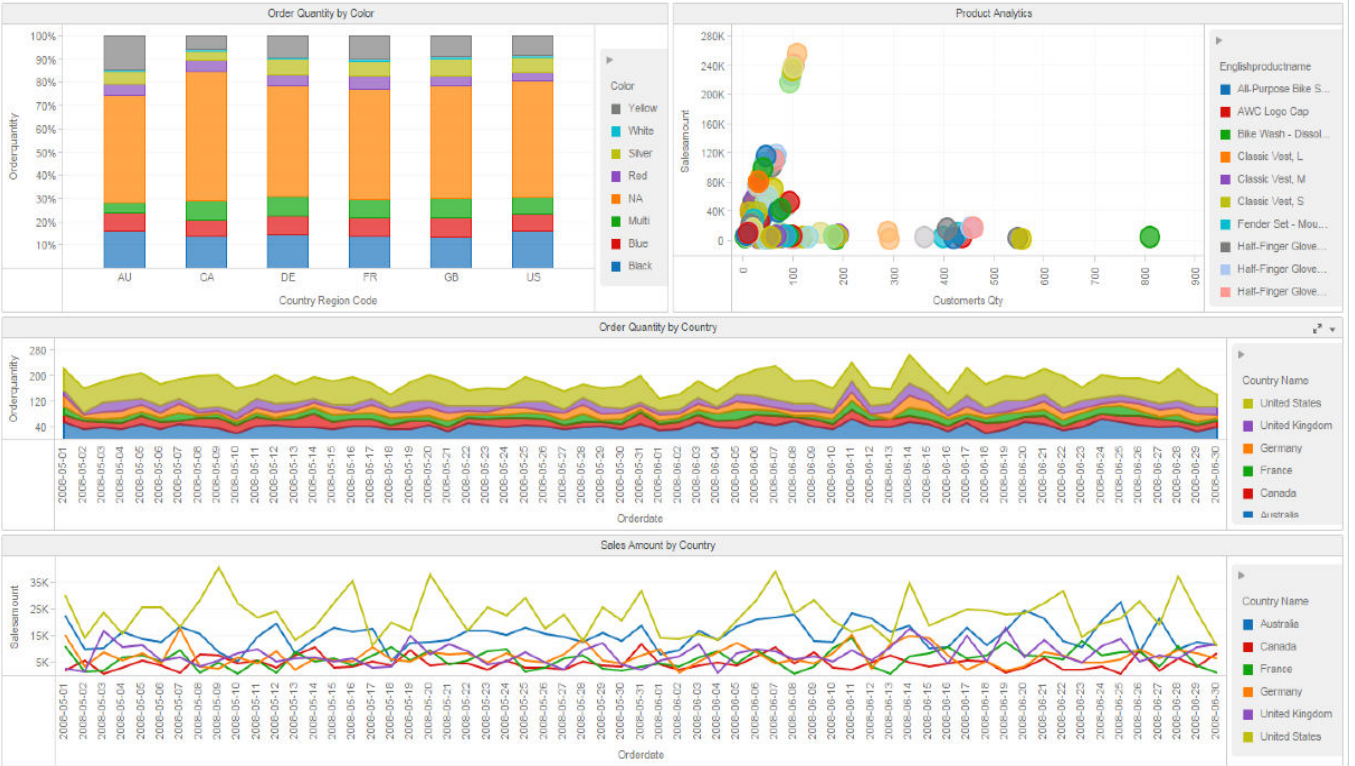


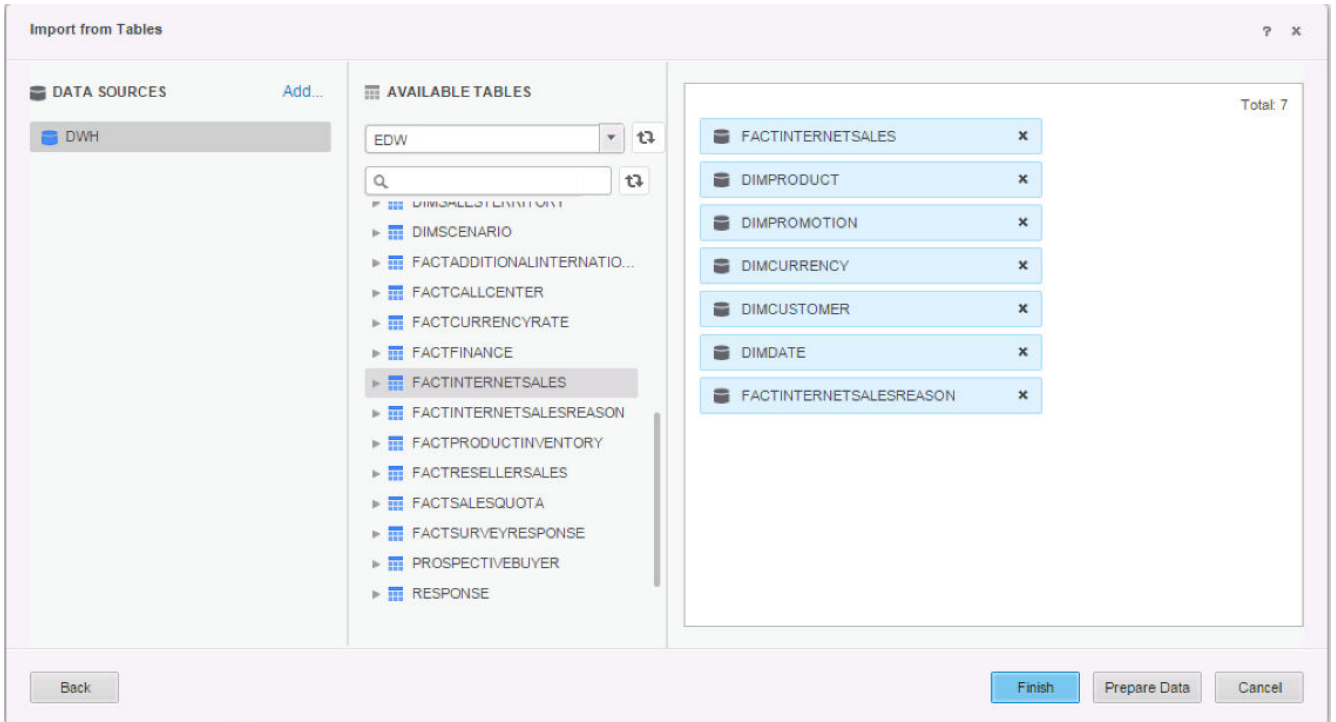
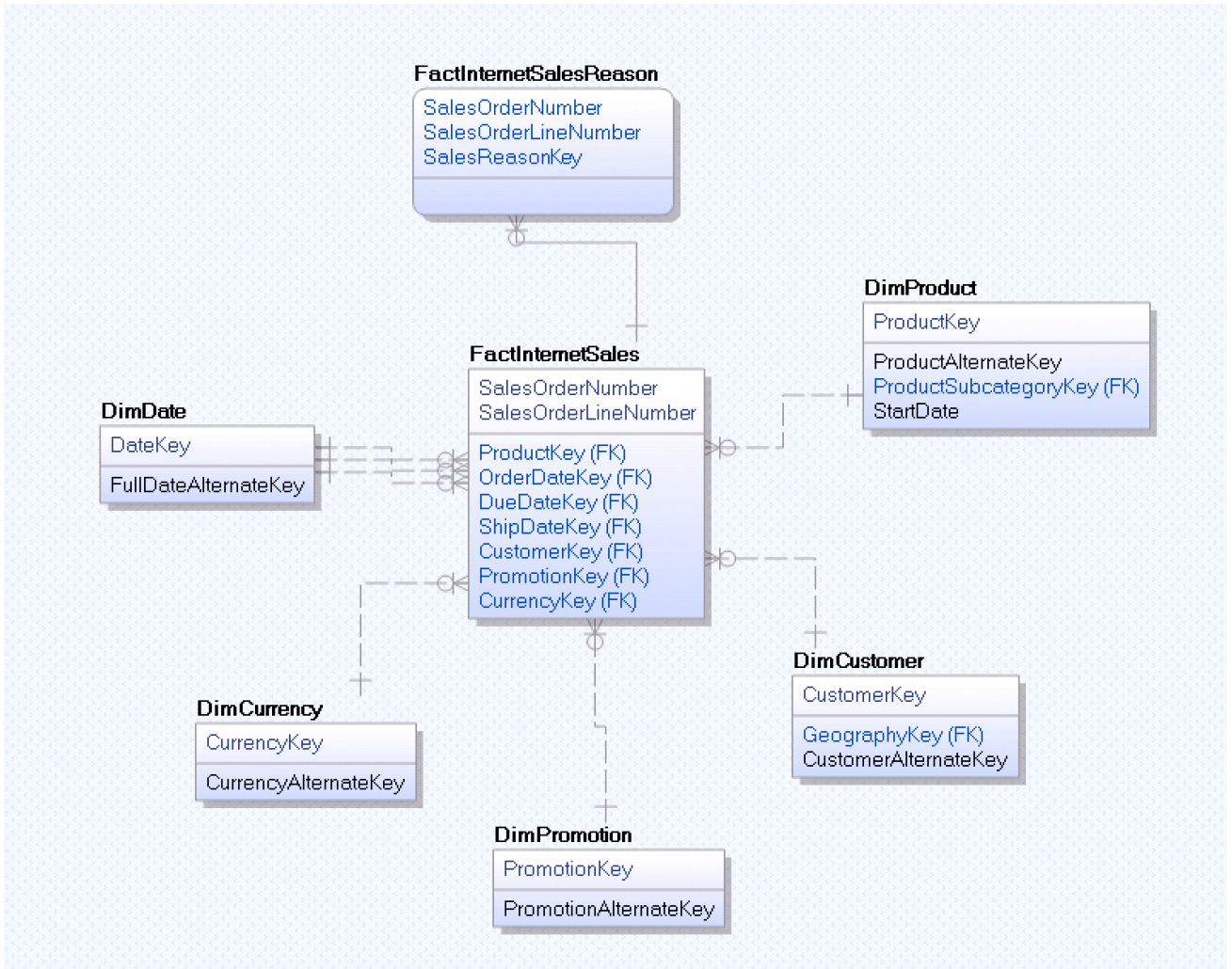
Source: Gartner (February 2016)





Management Dashboard Last 60 days





Preview

AI Objects View... ? X

+

Add a new table

FACTINTERNETSALES

Attributes

- ◆ Salesordernumber
- ◆ Carriertrackingnu...
- ◆ Customerponumber
- ◆ Orderdate
- ◆ Duedate
- ◆ Shipdate

DIMPRODUCT

Attributes

- ◆ Productalternatekey
- ◆ Weightunitmeasu...
- ◆ Sizeunitmeasu...
- ◆ Englishproductna...
- ◆ Spanishproductn...
- ◆ Frenchproductna...
- ◆ Color
- ◆ Size
- ◆ Sizerange
- ◆ Productline
- ◆ Class

DIMPROMOTION

Attributes

- ◆ Englishpromotion...
- ◆ Spanishpro...
- ◆ Frenchpro...
- ◆ Englishpro...
- ◆ Spanishpro...
- ◆ Frenchpro...
- ◆ Englishpro...
- ◆ Spanishpromotion...
- ◆ Frenchpromotion...
- ◆ Startdate
- ◆ Enddate

DIMCURRENCY

Attributes

- ◆ Currencyalternate...
- ◆ Currencysynme
- ◆ Currencykey

DIMCUSTOMER

Attributes

- ◆ Customeralternate...
- ◆ Title
- ◆ Firstname
- ◆ Middlename
- ◆ Lastname
- ◆ Birthdate
- ◆ Maritalstatus
- ◆ Suffix
- ◆ Gender
- ◆ Emailaddress
- ◆ Englisheducation

DIMDATE

Attributes

- ◆ Fullstartdate
- ◆ Englishd...
- ◆ Spanishd...
- ◆ Frenchd...
- ◆ Englishm...
- ◆ Spanishm...
- ◆ Frenchm...

Measures

- ◆ Datekey
- ◆ Daynumt
- ◆ Daynumt

▼ DIMPRODUCT Preview (shows first 50 rows of data) Wrangle...

Productkey	Productalternatekey	Productsubcategorykey	Weightunitmeasurecode	Sizeunitmeasurecode	Englishproductname	Spanishproductnam
212	HL-U509-R	31			Sport-100 Helmet, Red	Casco deportivo: 100, rojo
213	HL-U509-R	31			Sport-100 Helmet, Red	Casco deportivo: 100, rojo
214	HL-U509-R	31			Sport-100 Helmet, Red	Casco deportivo: 100, rojo
215	HL-U509	31			Sport-100 Helmet, Black	Casco deportivo: 100, neg
203	SP-2981				Seat Post	
204	SR-2098				Steerer	
205	SS-2985				Seat Stays	
206	ST-9828				Seat Tube	
207	TO-2301				Top Tube	
208	TP-3923				Tension Pulley	
209	RC-0291				Rear Derailleur Cage	

Finish Cancel

DASHBOARD DATABASE...

All

▼ DIMCURRENCY ... ✓

Live

- ▼ DIMCURRENCY
 - ◆ Currencyaltern...
 - ◆ Currencykey
 - ◆ Currencysynme
- ▼ DIMCUSTOMER
 - ◆ Addressline1
 - ◆ Addressline2
 - ◆ Birthdate
 - ◆ Commutedista...
 - ◆ Customeralter...

EDITOR

Visualization 1

↶ Σ 📊

- Edit Dataset...
- Join Behavior ▶
- Data Access Mode ▶
- Replace Dataset With ▶
- Show Row Count ▶
- Create Metric ...
- Create Attribute...
- Rename
- Delete

Wrangle Your Data

LOCATION ▾ Split On Separators ▾ Comma ▾

Apply

Delete Column

Fill Down

Blank Down

To Title Case

History Script ↶ ↷

⬇ ⬆ Reset to Initial Data

- 0) Split On ',' [LOCATION] (655 Rows)
- 1) Rename Column [LOCATION 1] To {Zip Code}
- 2) Rename Column [LOCATION 6] To {City}
- 3) Rename Column [LOCATION 2] To {State Province Code}

GEOGRAPHYKEY ▾	Zip Code ▾	State Province Code ▾	State Province Name ▾	Country Region Code ▾	Country Name ▾	City ▾
148	63151	HH	Hamburg	DE	Germany	Muehlheim
149	63151	HH	Hamburg	DE	Germany	Mühlheim
150	80074	HH	Hamburg	DE	Germany	München

State Province Name (72) ▾

New Mexico (3)
New South Wales (19)
New York (7)
NewYork (4)
Nord (6)
Nordrhein-Westfalen (8)
North Carolina (7)

City (563) ▾

Mühlheim (1)
München (2)
München (5)
Münster (1)
Myrtle Beach (1)
N. Vancouver (1)
Nashua (1)

◀ FILTER ⚙

Sheet 1 ▼

▼ Orderdate ▼

From: 5/1/2008 12:00 📅

To: 6/30/2008 12:0 📅

- Format
- Rename
- Delete
- More Options...

Filtering options ? x

Use **Product Analytics** to filter the following targets:

- Order Quantity by Country
- Sales Amount by Country
- Order Quantity by Color


Filter ▼ data on selection

- Allow users to clear all selections


OK Cancel

← → ↻ 📄 192.168.81.134:8080/MicroStrategy/servlet/mstrWeb

📱 Apps 📄 Administrator Page. M... 📄 Data modelling best p... 📄 HTTPS 📄 WELCOME. Micro



Welcome Administrator. (If you are not Administrator, [click here.](#))

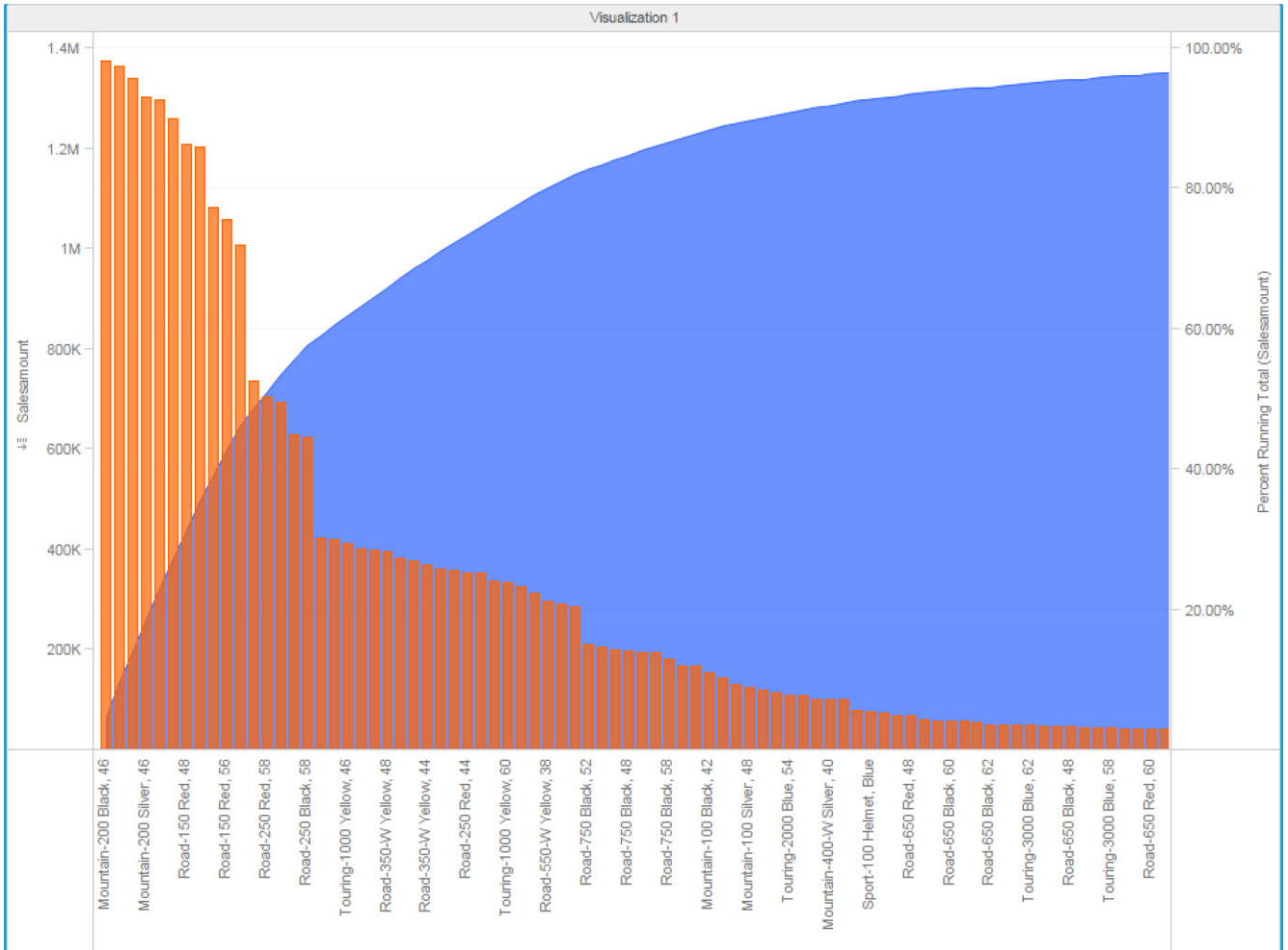


MasteringBI
Server name localhost.localdomain

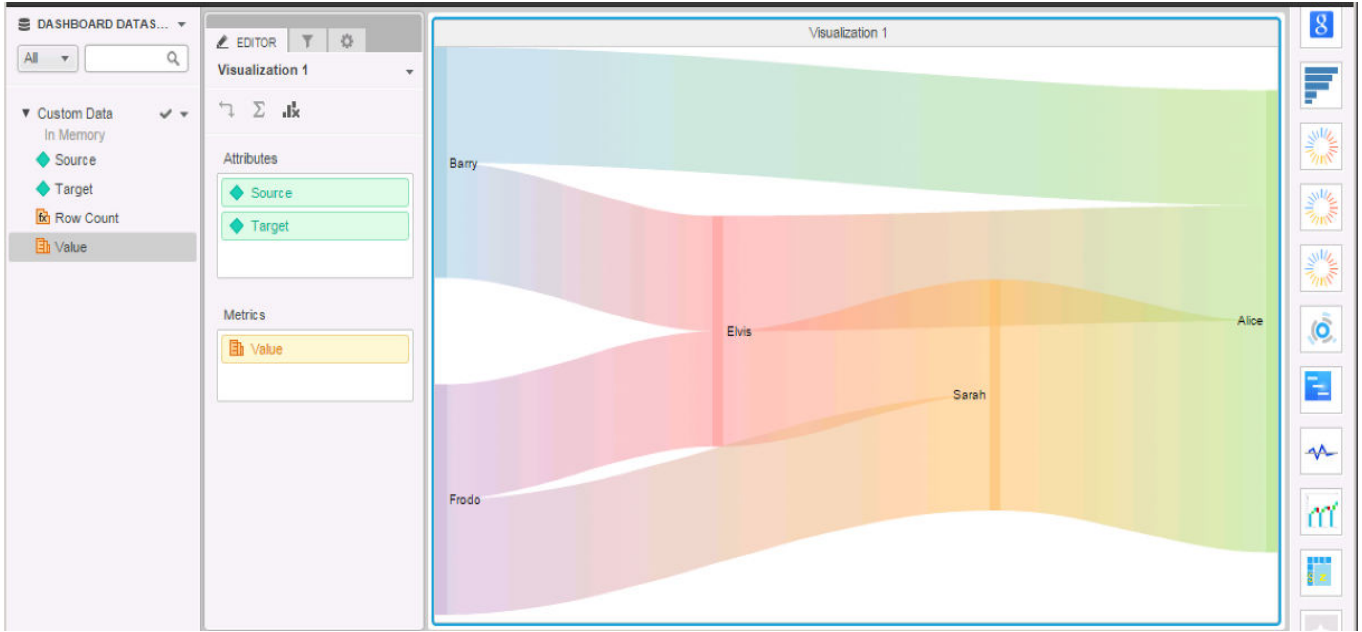
Server URL

Ask your administrator for the server URL and enter it here to load the connection information. You can also enter it manually in the advanced section below.

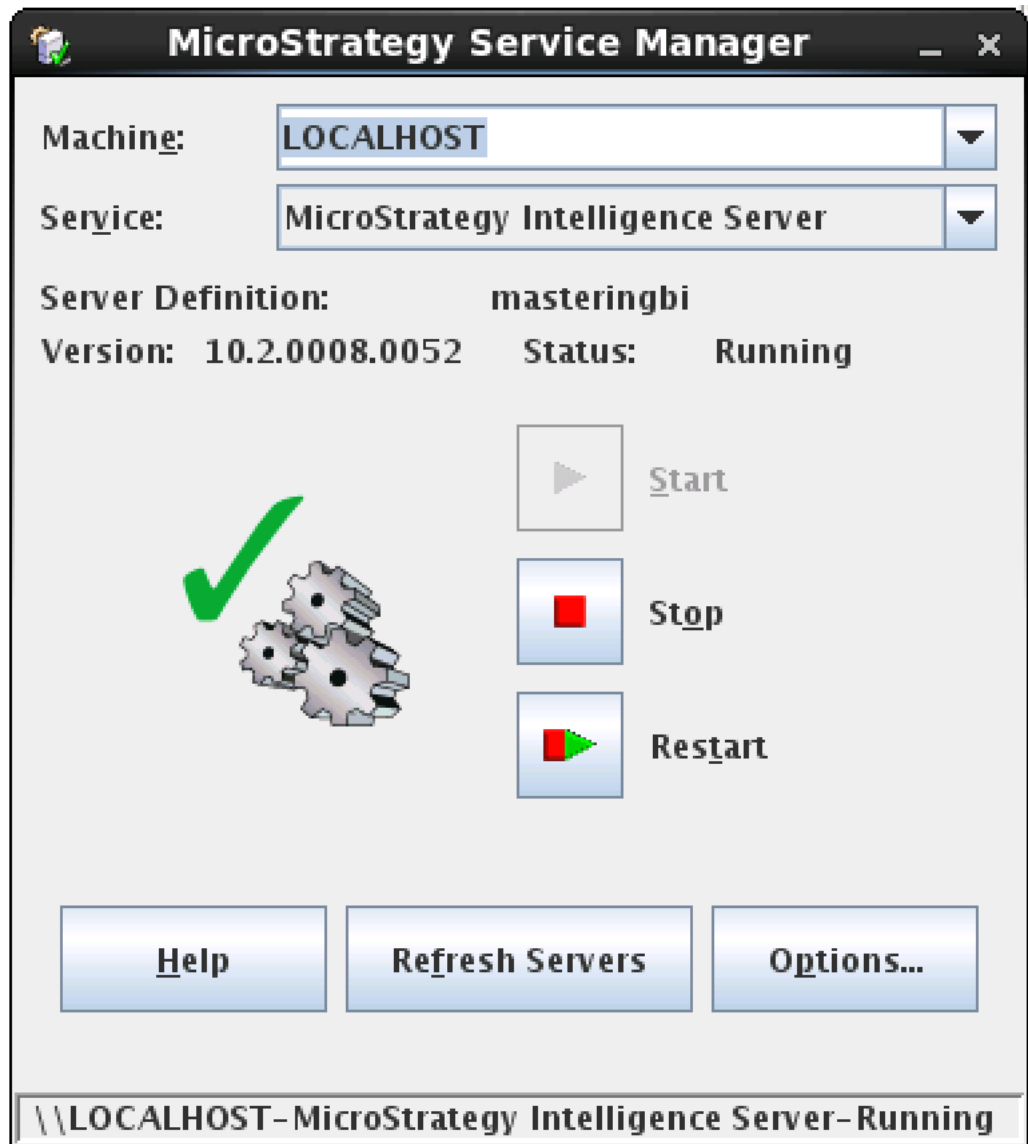
▶ ADVANCED

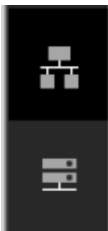
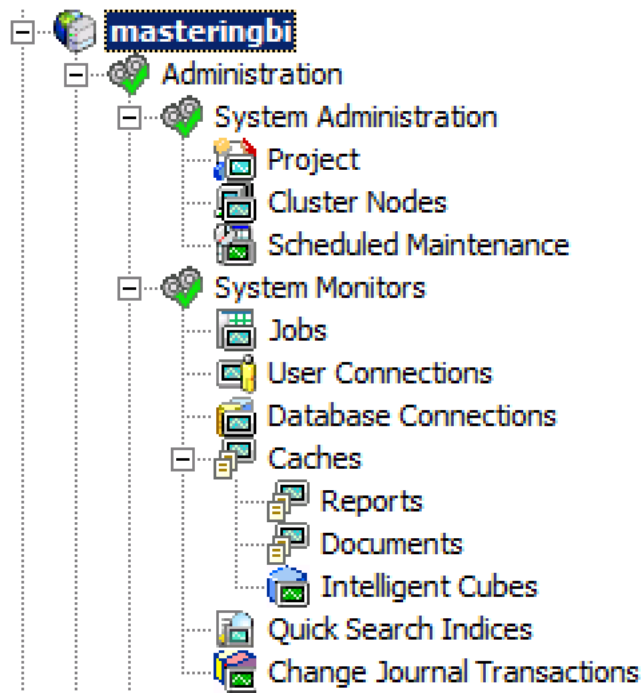


Cohort Analyse									
Year Month Order	20087	20086	20085	20084	20083	20082	20081	20079	20078
Months Between	Orderquantity	Orderquantity	Orderquantity	Orderquantity	Orderquantity	Orderquantity	Orderquantity	Orderquantity	Orderquantity
0	1340	2867	2975	2715	2540	2467	2560	2725	2950
1	62	42	66	51	44	45	53	123	11
2	68	64	59	94	88	85	97	19	57
3	73	64	75	76	68	83	92	63	17
4	63	83	85	78	79	90	158	26	34
5	52	91	77	89	87	120	163	28	45
6	70	69	69	92	123	115	55	45	64
7	52	54	75	166	117	23	127	36	21



Chapter 9: MicroStrategy System Administration





Connect to
Master Health Agent

Data Source Name

Standard Connection TNS Names Connection

Host Name

Port Number

SID

Server Configuration: Statistics



Metadata Connection	<p>Provide the DSN, username and password for the Statistics repository. This step will create a default Statistics database instance for all the projects in the local Intelligence Server metadata.</p> <p><input checked="" type="checkbox"/> Make this my default Statistics Database Instance for the local Intelligence Server metadata.</p> <p>DSN: <input type="text" value="Enterprise Manager..."/> <input type="button" value="New..."/></p> <p>User Name: <input type="text" value="mstrem"/></p> <p>Password: <input type="text" value="....."/></p> <p><input checked="" type="checkbox"/> Enable Basic Statistics (For newly created projects and existing projects not logging statistics)</p>
MicroStrategy Authentication	
Server Definitions	
Server Settings	
SSL Configuration	
Statistics Configuration	

MicroStrategy Command Manager

File Edit Connection Tools Window Help

CONNECT TO ENTERPRISE MANA...

Untitled2-1*

Script 1

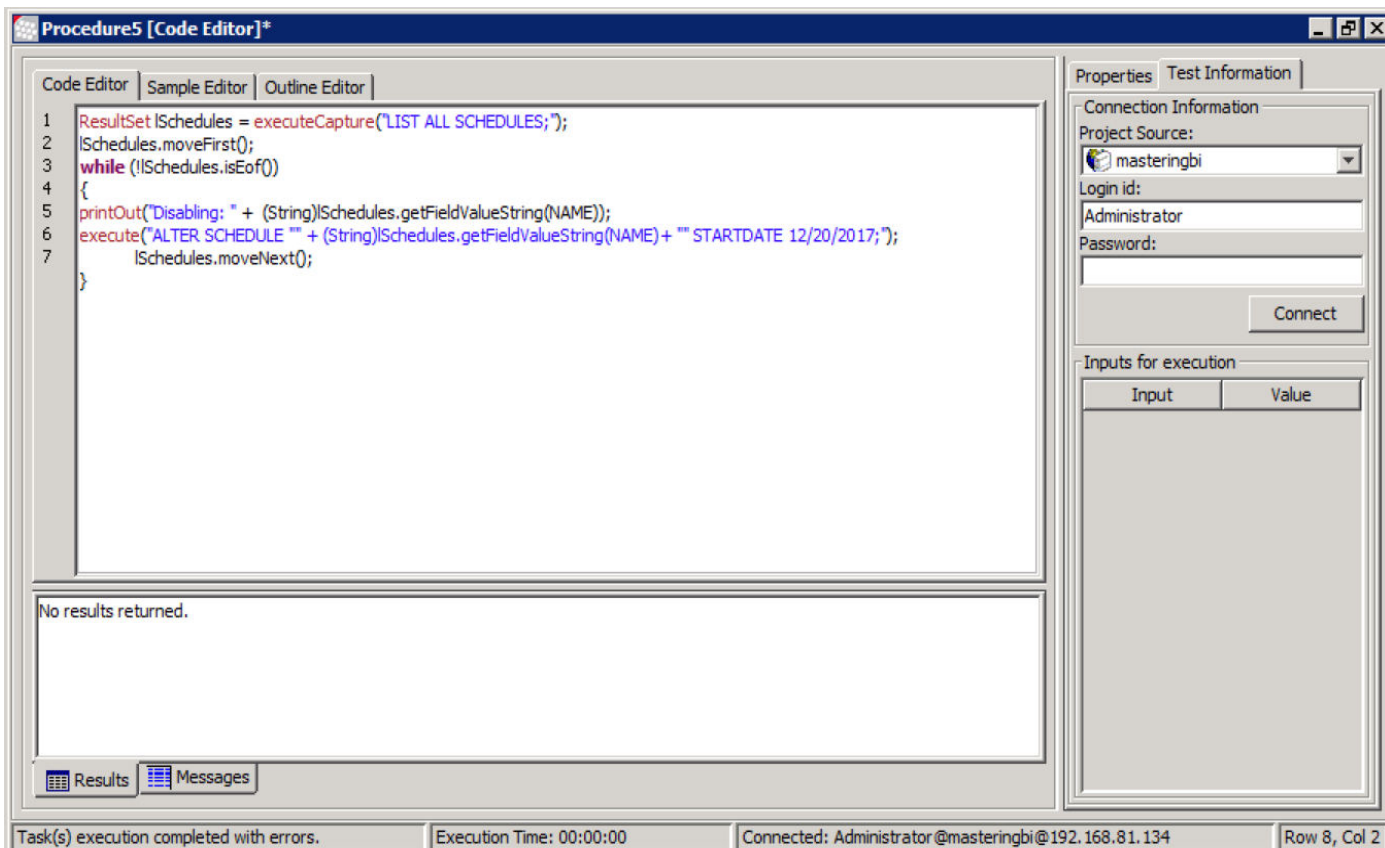
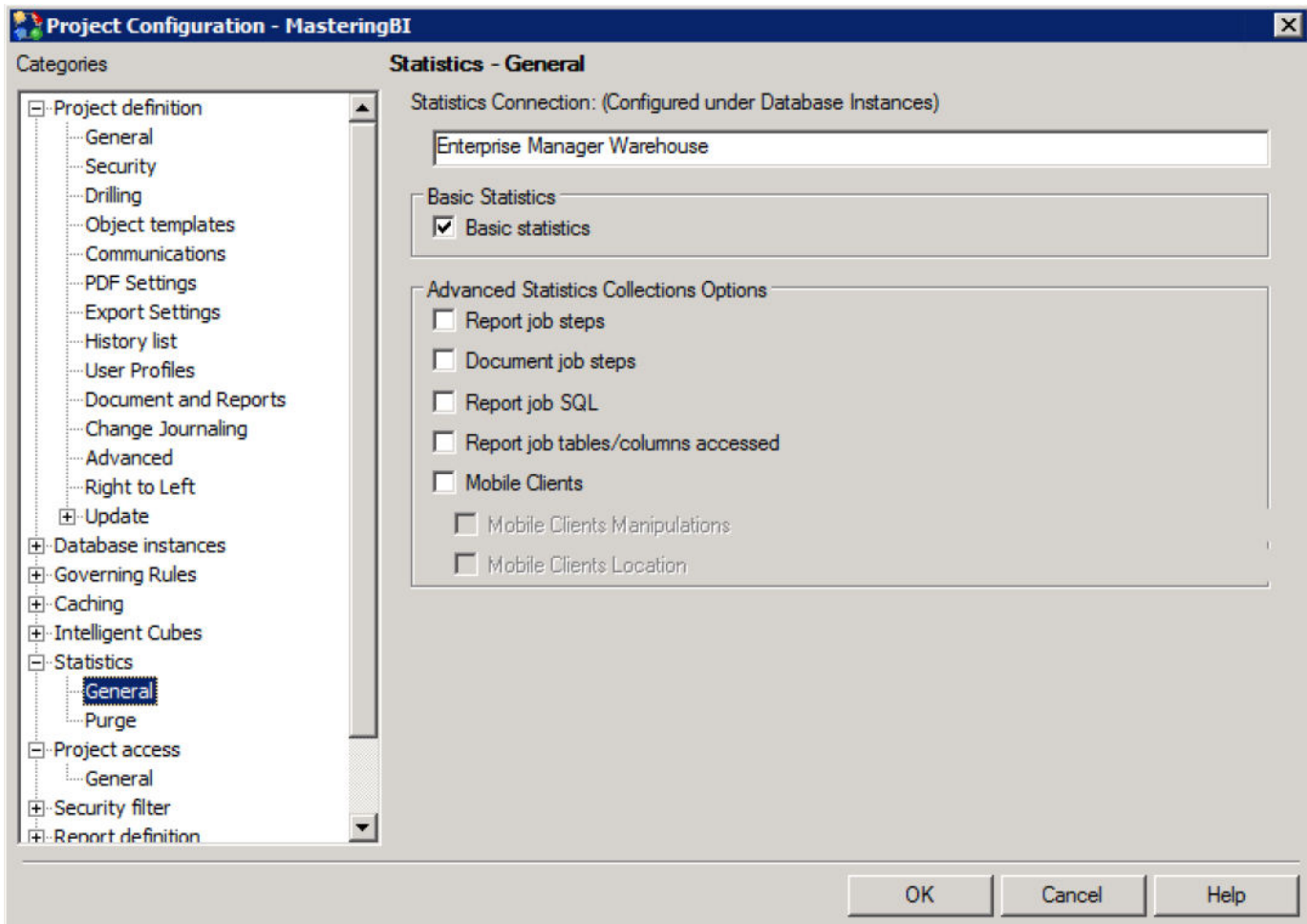
```
CONNECT TO ENTERPRISE MANAGER "LOCALHOST.LOCALDOMAIN" IN PORT 9999;  
START MONITORING SERVER "LOCALHOST.LOCALDOMAIN" IN PORT34952 USING USERNAME "ADMINISTRATOR" PASSWORD "" FOR ENTERPRISEMANAGER "MSTR101.TEST.  
MICROSTRATEGY.COM" IN PORT 9999;  
CREATE DATA LOAD "DATALOAD" FOR ENVIRONMENT "LOCALHOST.LOCALDOMAIN" AND PROJECT "MASTERINGBI", ENVIRONMENT "LOCALHOST.LOCALDOMAIN» DO ACTION  
UPDATEWAREHOUSE CLOSESESSIONS UPDATEOBJECTDELETIONS BEGIN DATE "10/22/2015 22:00:00 +0000" TO "10/25/2025 22:00:00 +0000" FREQUENCY WEEKLY ON  
SATURDAY SUNDAY FROM 02:00:00 TO 06:00:00 EVERY 2 HOURS ENABLED IN ENTERPRISE MANAGER "LOCALHOST.LOCALDOMAIN" IN PORT 9999;  
LIST ALL DATA LOADS IN ENTERPRISE MANAGER "LOCALHOST.LOCALDOMAIN" IN PORT 9999;  
EXECUTE DATA LOAD "DATALOAD" IN ENTERPRISE MANAGER "LOCALHOST.LOCALDOMAIN" IN PORT 9999;
```

No results returned.

Results Messages

Task(s) execution completed with errors. Execution Time: 00:00:21 Connected: Administrator@mastingbi@192.168.81.134 Row 5, Col 90

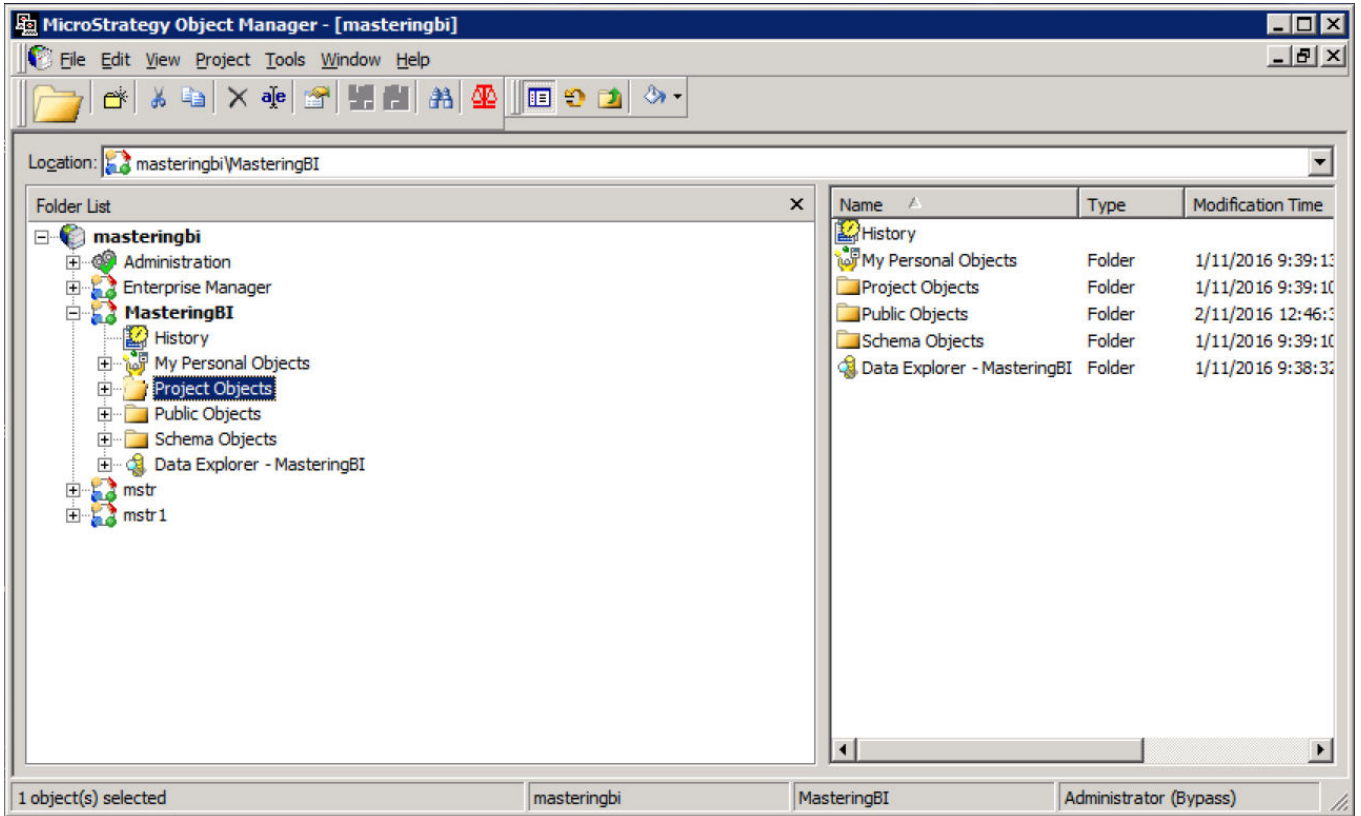
Connections: 2 CAPS NUM



```
mstrcmd=# select * from dssmdobjdepn limit 10;
```

project_id	object_id	depn_prjid	depn_objid	object_type	depnobj_type
38A062302D4411D28E71006008960167	C0CF1CCA4959D739BCE07822A6FBB86	38A062302D4411D28E71006008960167	1033230C45C86FB79EFA40A977316969	31	30
F2EF6A1C11E5B8DD00000080EF558B47	494A9B8B4886909EE25D64AB69DA7AA7	F2EF6A1C11E5B8DD00000080EF558B47	45C11FA478E745FEA08D781CEA190FE5	12	21
F2EF6A1C11E5B8DD00000080EF558B47	494A9B8B4886909EE25D64AB69DA7AA7	F2EF6A1C11E5B8DD00000080EF558B47	B41D00E311E5B80A07490080EF85C064	12	26
F2EF6A1C11E5B8DD00000080EF558B47	494A9B8B4886909EE25D64AB69DA7AA7	F2EF6A1C11E5B8DD00000080EF558B47	AE32140E4AB7B148ABA2FC9CB03DAC70	12	15
F2EF6A1C11E5B8DD00000080EF558B47	E111581D4EED7E9E7C409298A6D9F58C	F2EF6A1C11E5B8DD00000080EF558B47	B41E1DAE11E5B80A07580080EF85C064	12	26
F2EF6A1C11E5B8DD00000080EF558B47	E111581D4EED7E9E7C409298A6D9F58C	F2EF6A1C11E5B8DD00000080EF558B47	9C3FA205412985738A9D998B3392D594	12	15
F2EF6A1C11E5B8DD00000080EF558B47	E111581D4EED7E9E7C409298A6D9F58C	F2EF6A1C11E5B8DD00000080EF558B47	45C11FA478E745FEA08D781CEA190FE5	12	21
F2EF6A1C11E5B8DD00000080EF558B47	0F6661F04C763D1C6B54A8A366EBD1D3	F2EF6A1C11E5B8DD00000080EF558B47	45C11FA478E745FEA08D781CEA190FE5	12	21
F2EF6A1C11E5B8DD00000080EF558B47	0F6661F04C763D1C6B54A8A366EBD1D3	F2EF6A1C11E5B8DD00000080EF558B47	B41E0A6D11E5B80A07580080EF85C064	12	26
F2EF6A1C11E5B8DD00000080EF558B47	0F6661F04C763D1C6B54A8A366EBD1D3	F2EF6A1C11E5B8DD00000080EF558B47	F56C3F584E505FCC1BBC8A62300E1E9	12	15

(10 rows)



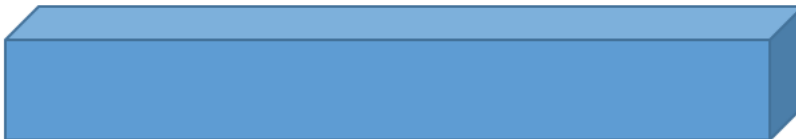
Setup Wizard

- Select Initial Project
- Select Target Project
- Select Objects to Compare
- Set Logging and Execution Parameters

Test Execution

- Generate SQL
- Generate Data
- Generate Graphs
- Monitor Execution
- Store Baseline Results

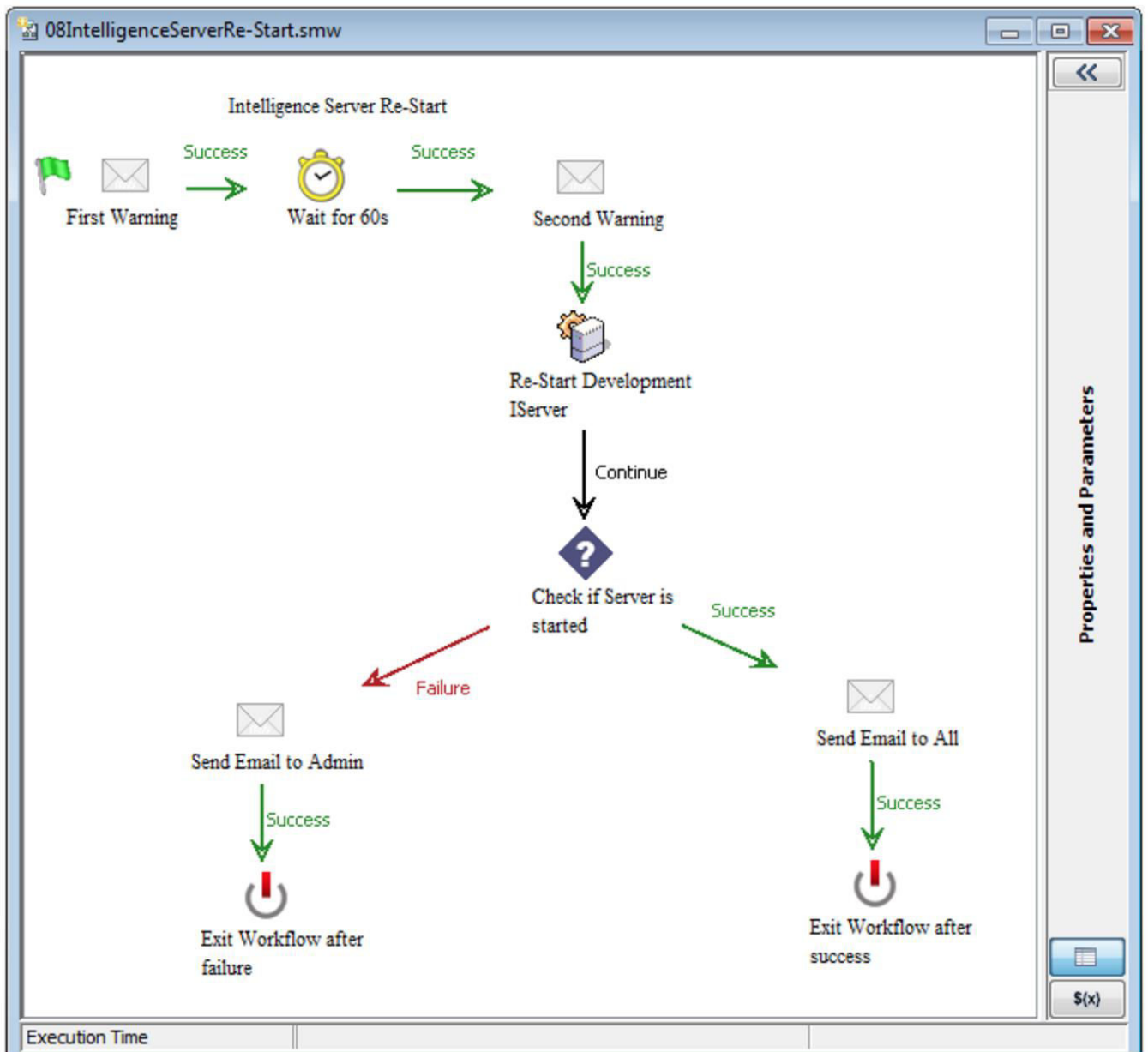
Save Results



Results Overview

- Display Summary Exceptions
- Compare SQL
- Compare Data
- Compare Graphs





- Categories
- [-] Server Definition
 - General
 - Security
 - Change Journaling**
 - Advanced
 - [+] Statistics
 - [+] Governing Rules
 - [+] Projects
 - [+] Clustering
 - [+] LDAP
 - [+] Web Single Sign-on
 - [+] History settings
 - [+] SAP User Management
 - [+] Web Quick Search

Server Definition - Change Journaling

Configure Change Journaling

Enable Change Journaling

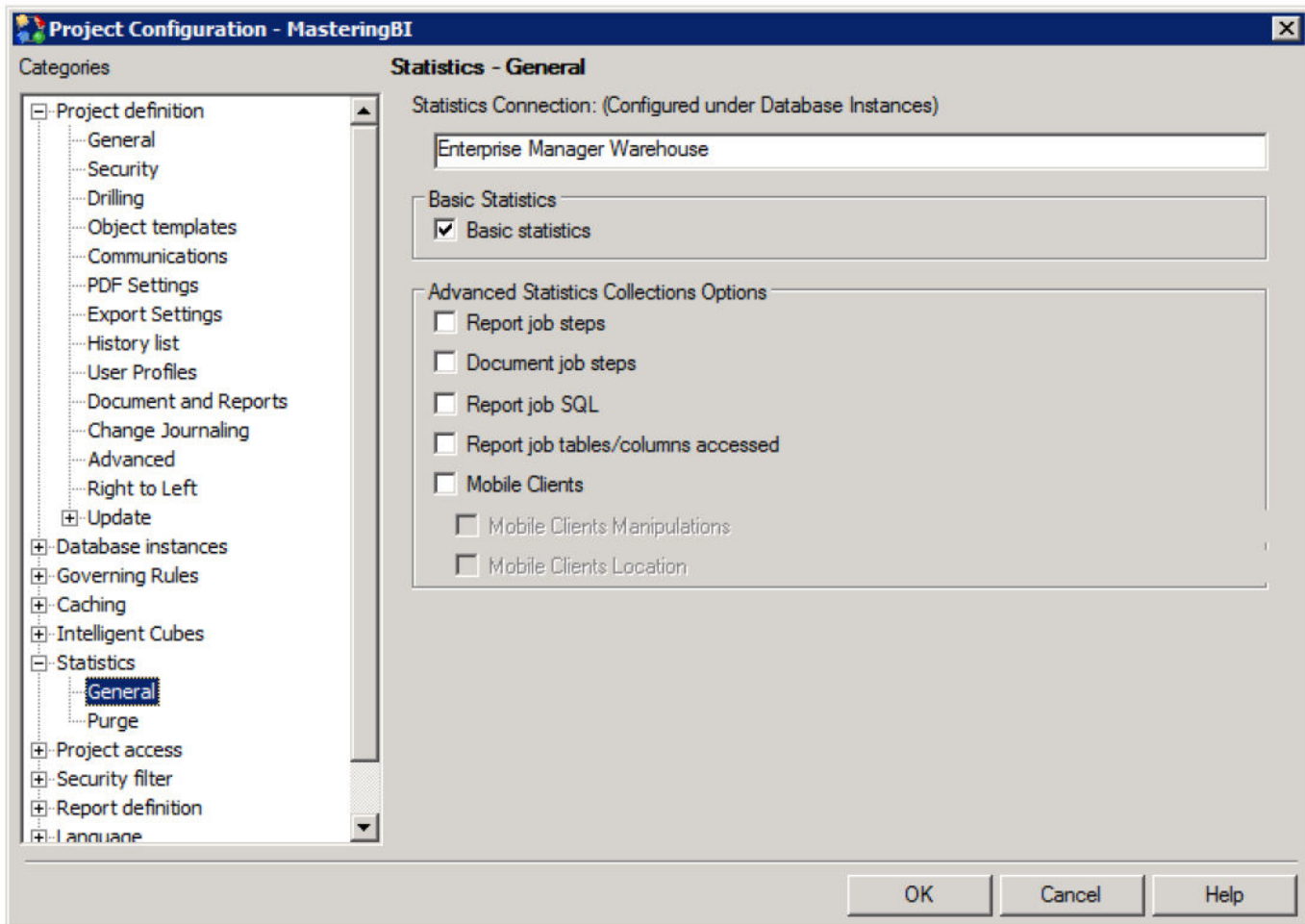
Comments:

Purge Change Journal

Select date and time to purge log.

Purge all data logged before:

Purge timeout (seconds):



Properties - Schema Objects

Categories

Properties

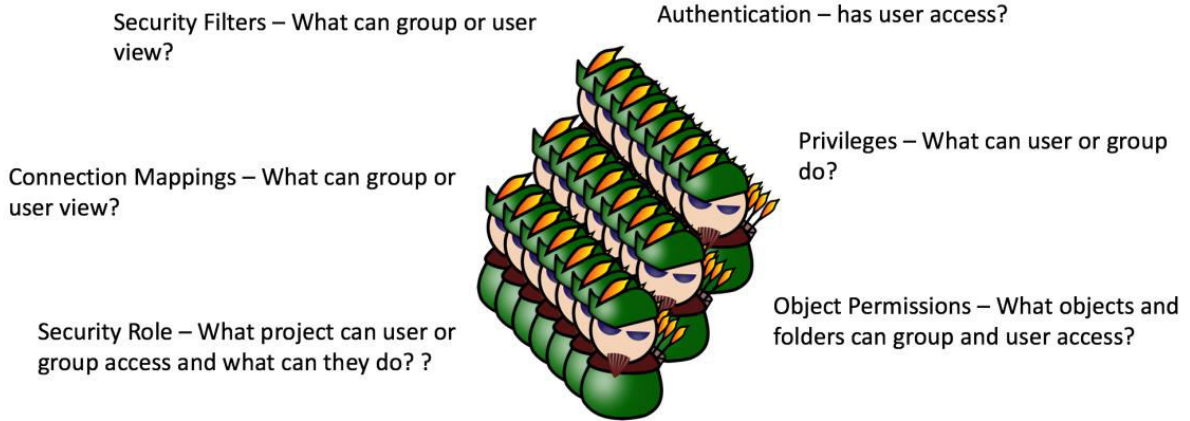
- General
- Security
- Long Description
- International
- Change journal**















Properties - Change journal

Name	User Name	TimeStamp	Change Type
Schema Objects	Administrator	1/11/2016 9:38:32 PM	Create
Schema Objects	Administrator	1/11/2016 9:39:10 PM	Change

OK Cancel Help

Chapter 10: Design and Implementation of the Security Model



- [-] ...  User Manager
 - [+] ...  Everyone
 - [-] ...  MicroStrategy Groups
 - [+] ...  3rd Party Users
 - [+] ...  LDAP Public / Guest
 - [+] ...  LDAP Users
 - [+] ...  MicroStrategy Architect
 - [+] ...  MicroStrategy Desktop Analyst
 - [+] ...  MicroStrategy Desktop Users
 - [+] ...  MicroStrategy Web Reporter
 - [+] ...  Public / Guest
 - [+] ...  Second Factor Exempt
 - [+] ...  System Monitors
 - [+] ...  Warehouse Users

		Enterprise Manager	MasteringBI
Security Role Selection		+ Inherited Access	+ Inherited Access ▾
Privileges		Group Level	
<input checked="" type="checkbox"/>	1. Web Reporter		
<input type="checkbox"/>	2. Web Analyst		
<input type="checkbox"/>	3. Web Professional		
<input type="checkbox"/>	4. Desktop		
<input checked="" type="checkbox"/>	5. Common Privileges		
<input type="checkbox"/>	6. Office		
<input type="checkbox"/>	7. Mobile		
<input type="checkbox"/>	8. Deliveries		
<input type="checkbox"/>	9. Multisource Option		
<input type="checkbox"/>	10. Analyst		
<input type="checkbox"/>	11. Developer		
<input type="checkbox"/>	12. Architect		
<input type="checkbox"/>	13. Object Manager		
<input type="checkbox"/>	14. Command Manager		
<input type="checkbox"/>	15. Integrity Manager		
<input type="checkbox"/>	16. Administration		
<input type="checkbox"/>	17. Operations Manager		

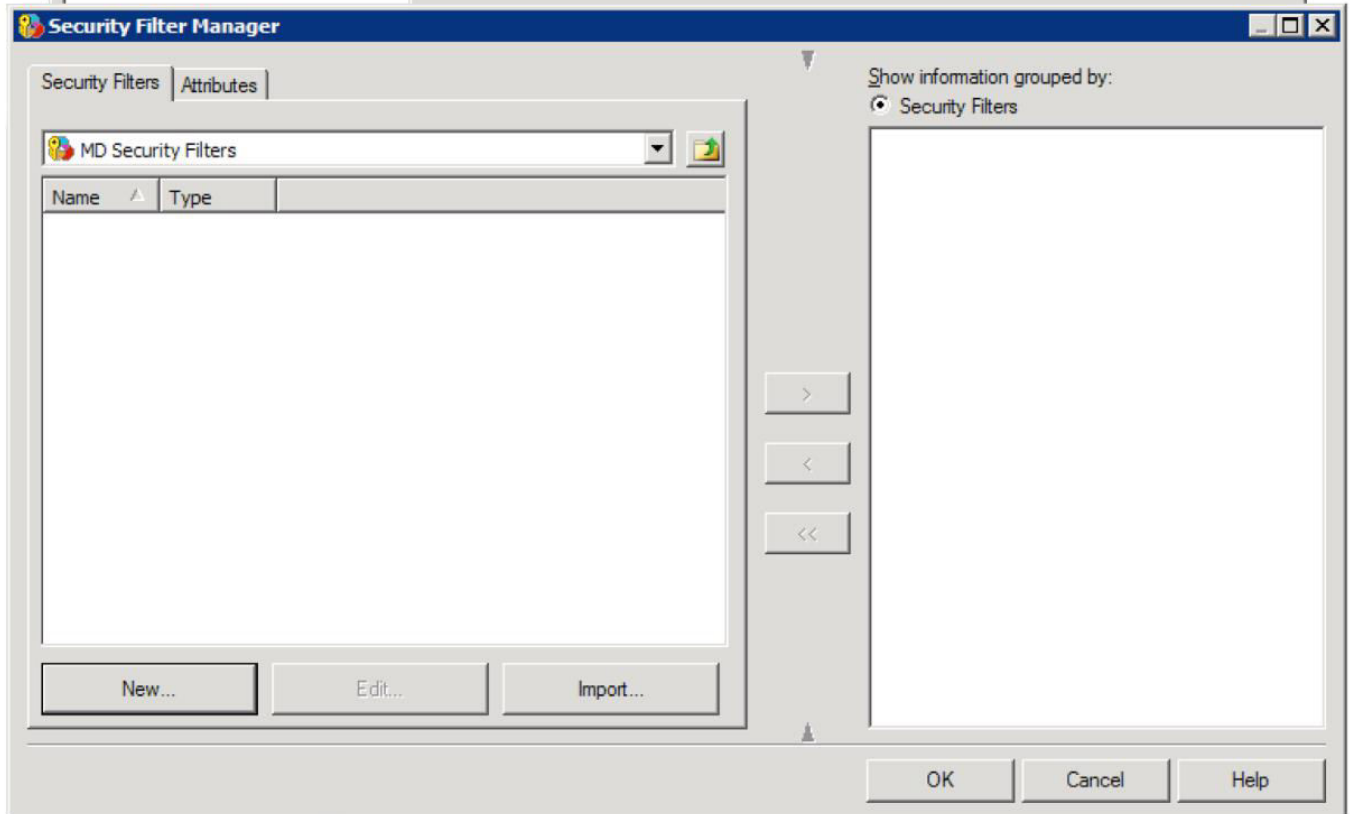
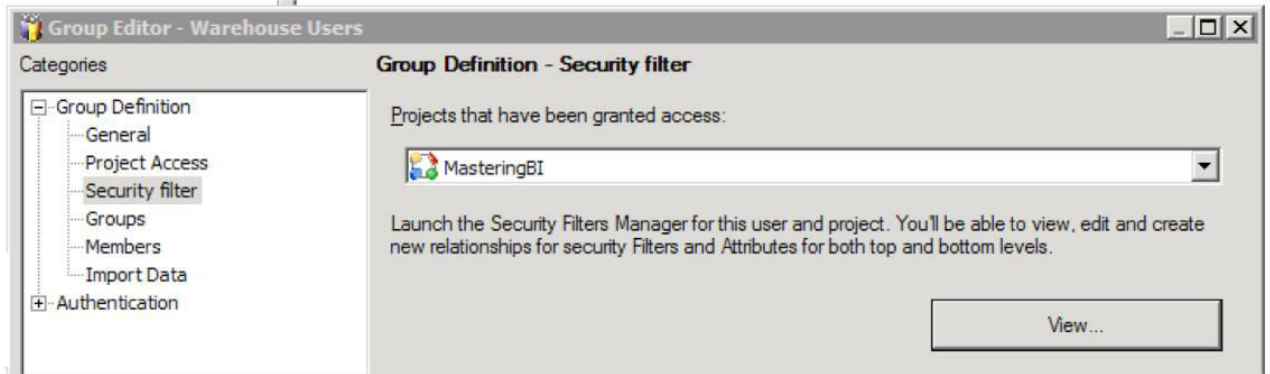
+ Inherited Access

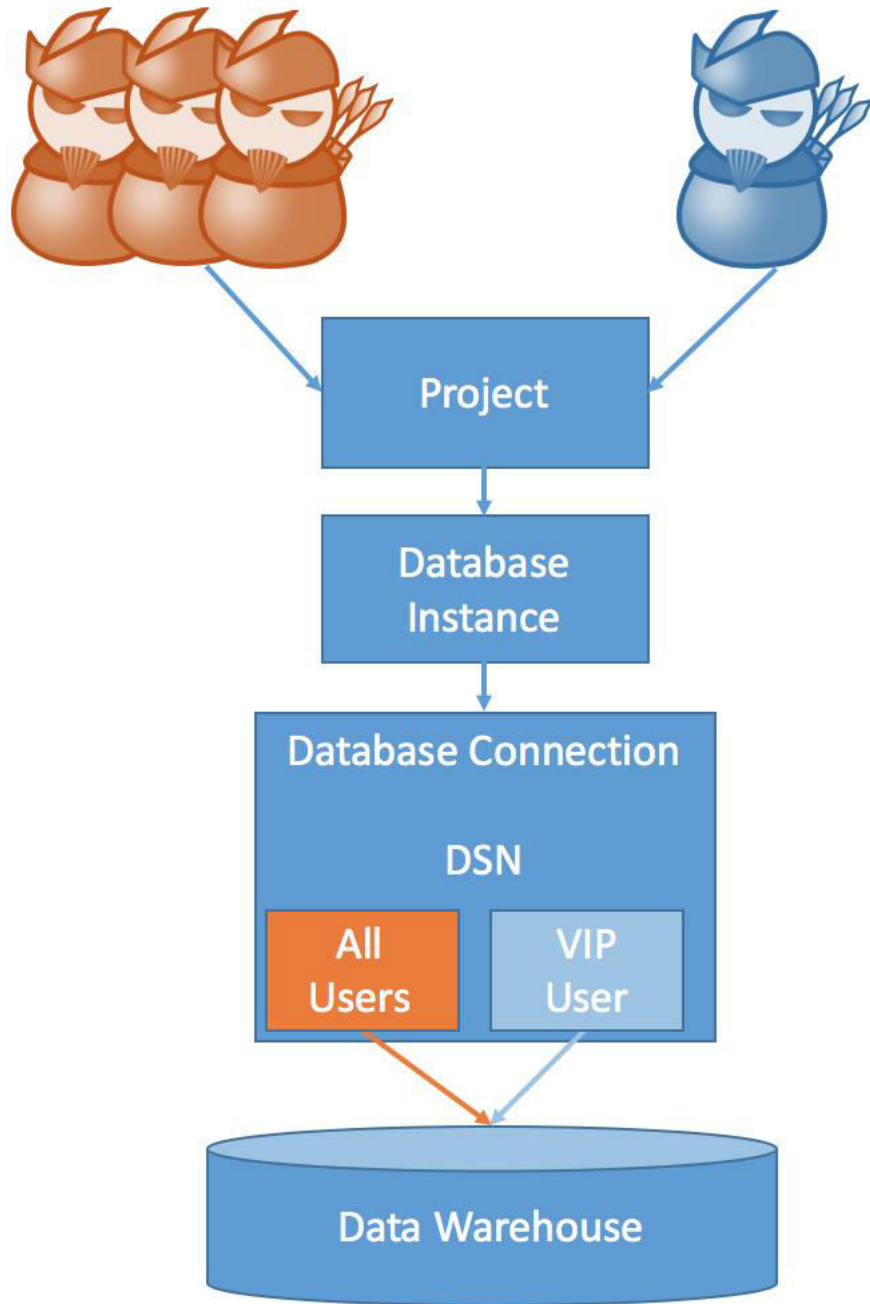
- Normal Users + Inherited Access
- Power Users + Inherited Access
- Project Bulk Administrators + Inherited Access
- Project Operations Administrators + Inherited Access
- Project Operations Monitors + Inherited Access
- Project Resource Settings Administrators + Inherited Access
- Project Security Administrators + Inherited Access
- Custom...

Privileges Obtained From:

- ✔ Security Role
- ✔ User/Group
- ✘ No project access granted
- ✘ No access granted

<input checked="" type="checkbox"/>	1. Web Reporter			
	Web change user p...	<input checked="" type="checkbox"/>	✔	✔
	Web change view ...	<input checked="" type="checkbox"/>	✔	✔
	Web configure tool...	<input checked="" type="checkbox"/>	✔	✔
	Web drill and link	<input checked="" type="checkbox"/>	✔	✔
	Web export	<input checked="" type="checkbox"/>	✔	✔
	Web object search	<input checked="" type="checkbox"/>	✔	✔
	Web print mode	<input checked="" type="checkbox"/>	✔	✔
	Web re-execute rep...	<input checked="" type="checkbox"/>	✔	✔
	Web simultaneous ...	<input checked="" type="checkbox"/>	✔	✔
	Web sort	<input checked="" type="checkbox"/>	✔	✔
	Web subscribe to hi...	<input checked="" type="checkbox"/>	✔	✔
	Web switch page-b...	<input checked="" type="checkbox"/>	✔	✔
	Web use locked he...	<input checked="" type="checkbox"/>	✔	✔
	Web user	<input checked="" type="checkbox"/>	✔	✔

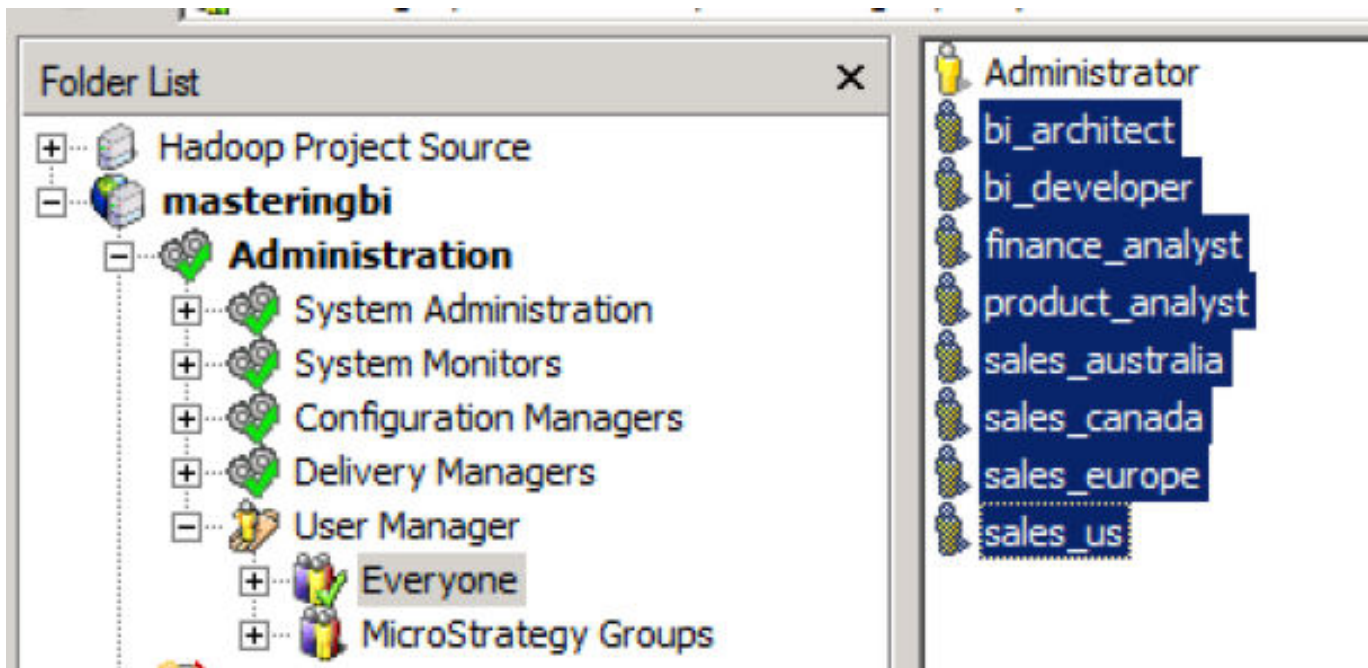




User	Object	Children
Administrator	Full Control	Default
Everyone	Custom	View
Public / Guest	Custom	View

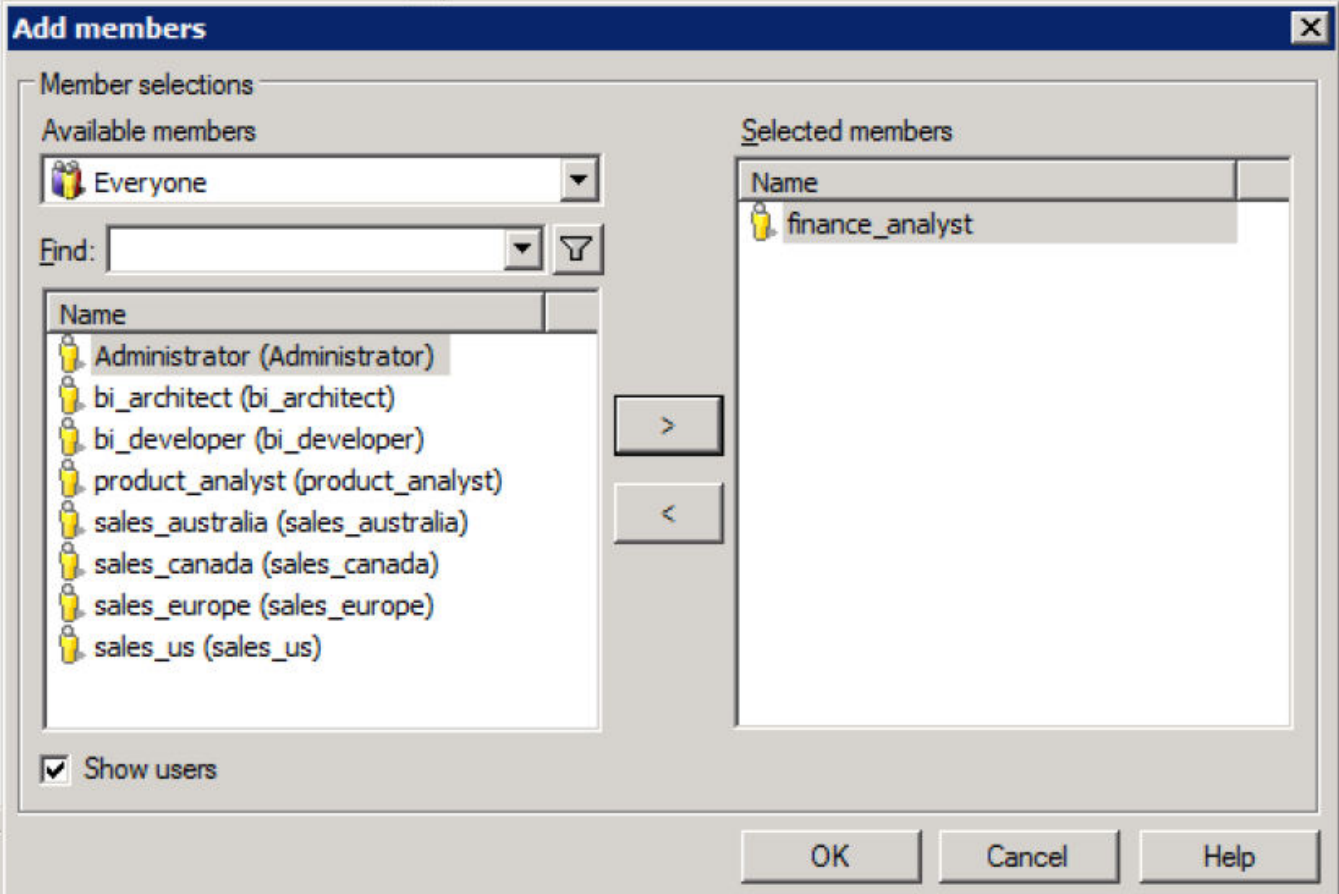
		Folders/Reports					
		BI	Sales		Product	Finance	
Groups	Raw Level Access	N/A	Order by Country	Sales by Country	Cost by Product Name	Revenue and Sales by Year	
	BI	x	x	x	x	x	
	Sales	Australia		x	x		
		Canada		x	x		
		US		x	x		
		Europe		x	x		
	Product				x		
Finance					x		

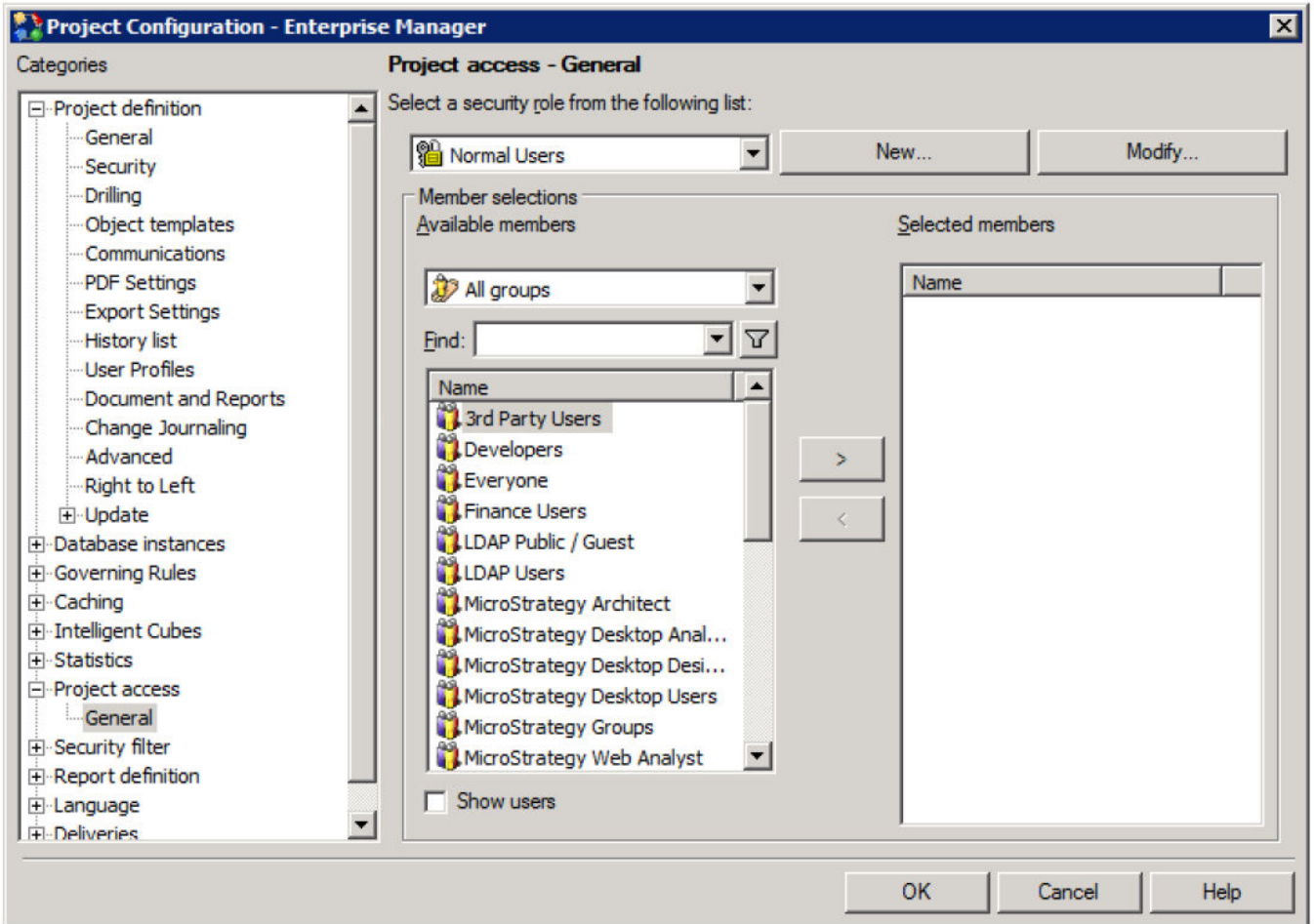
 Apply Raw Access

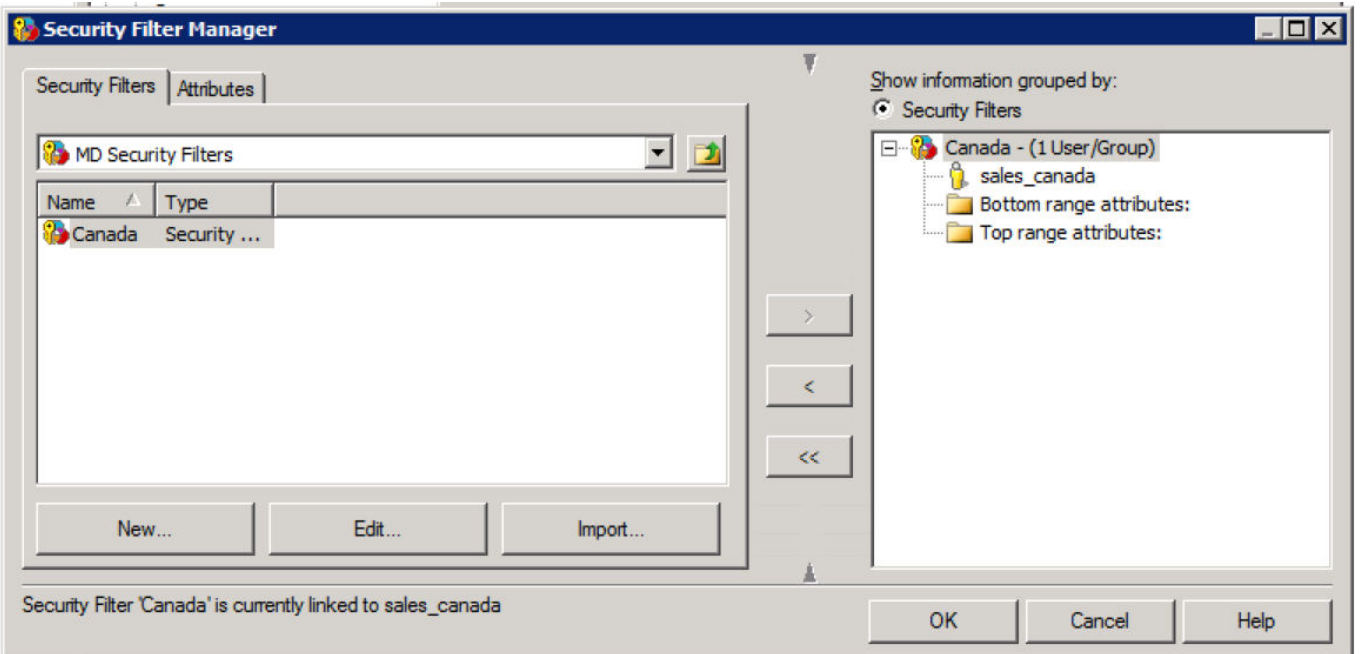
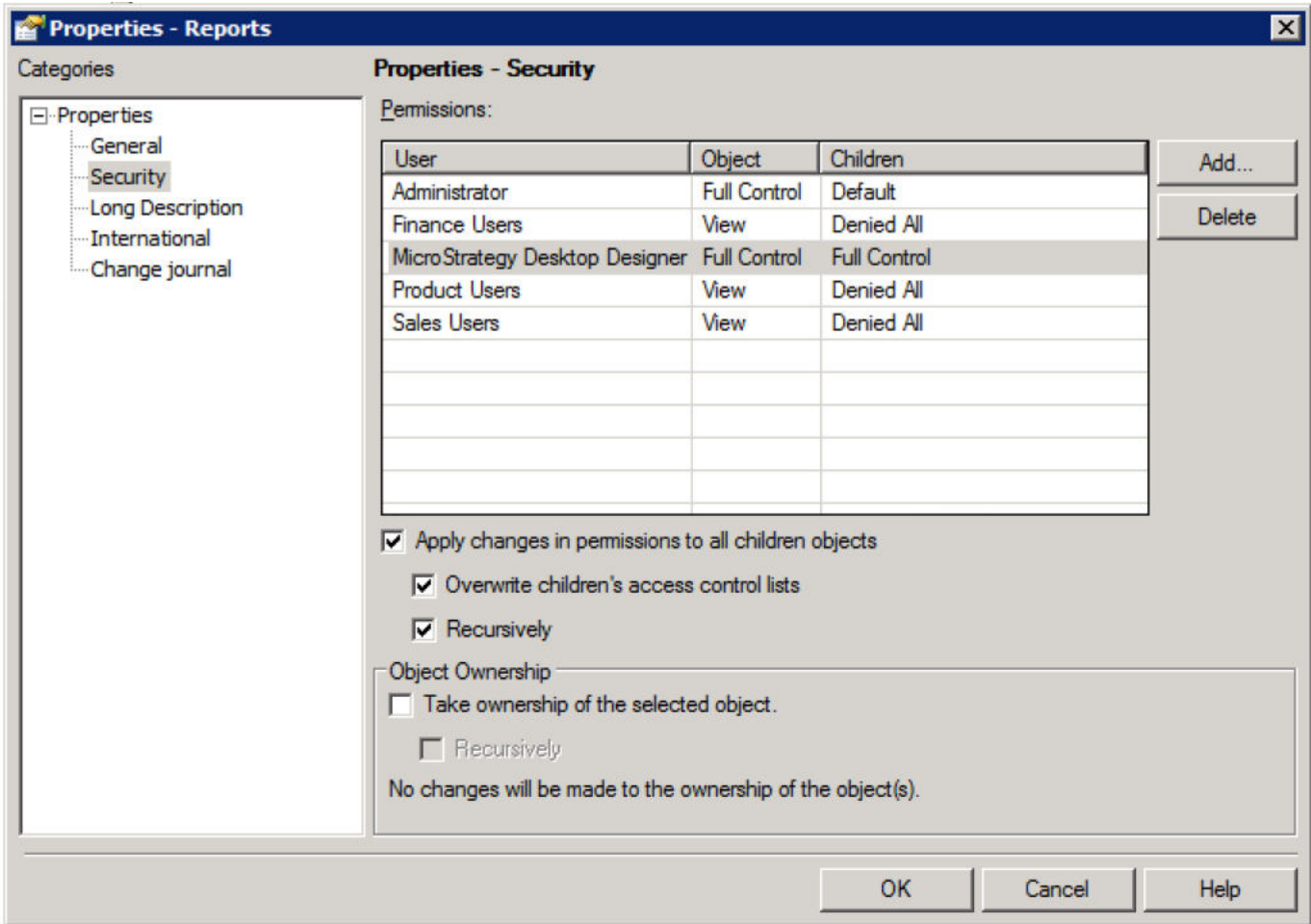


The Web Server encountered an unknown runtime error.

(The following privilege is required to access the resource you requested: WebUser.Please contact the Microstrategy Intelligence Server Administrator to verify that the required privilege is granted.)







RELATED REPORTS

- Orders by Country
- Sales by Country

Country Region Name	Metrics	Internet Order Quantity	Reseller Order Quantity
Canada		556,260	3,048,553

Freeform SQL Security Filter Dialog

Object Browser:

Geography

Name	Type
Key	Folder
City	Attribute
Country Region Code	Attribute
Country Region Name	Attribute
IP Address Locator	Attribute
Postal Code	Attribute
State	Attribute
State Province Code	Attribute

Find:

Attribute Mapping:

Attribute	Form	String
Country R...	ID	and a12.englishcountryregion...

Ignored Attributes:

Select Level: (Country Region, City)

Allow security filters with Top and Bottom levels to be evaluated based on the select level of this report






Replacement String:

OK Cancel Help

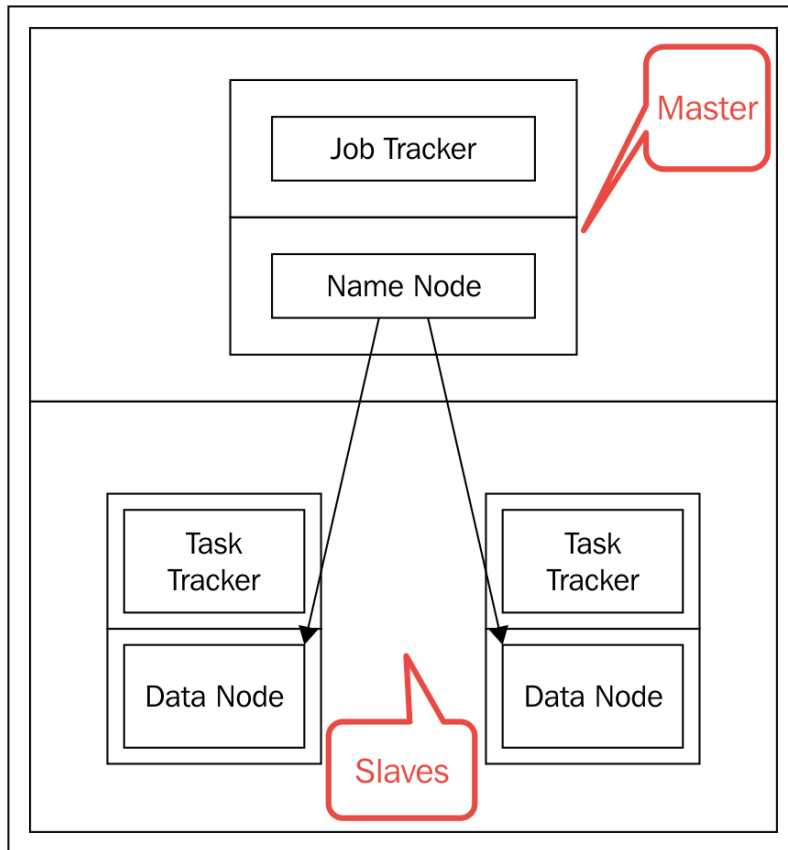
```

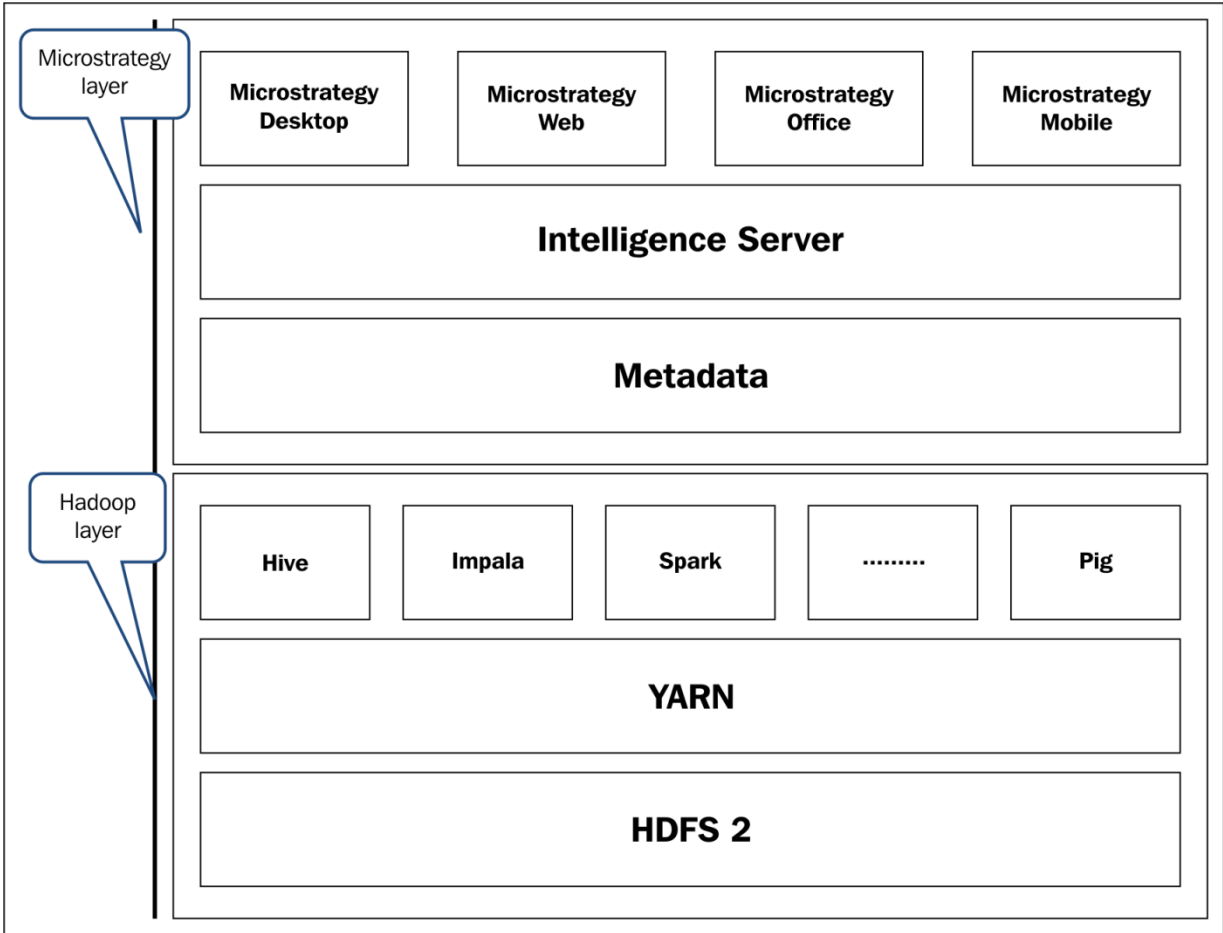
select a12.ENGLISHCOUNTRYREGIONNAME COUNTRYREGIONNAME,
a12.CITY CITY,
sum(a11.SALESAMOUNT) WJXBFS1
from EDW.FACTINTERNETSALES a11
join EDW.DIMGEOGRAPHY a12
on (a11.SALESTERRITORYKEY = a12.SALESTERRITORYKEY)
WHERE a12.ENGLISHCOUNTRYREGIONNAME IS NOT NULL
Security Filter
group by a12.ENGLISHCOUNTRYREGIONNAME,
a12.CITY

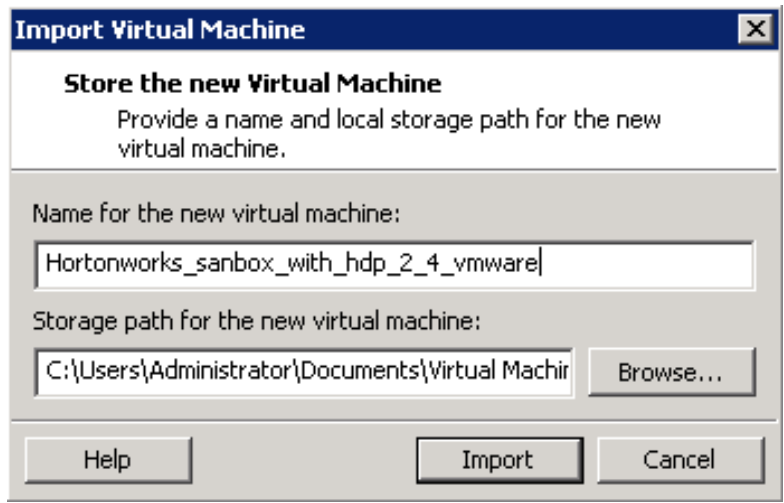
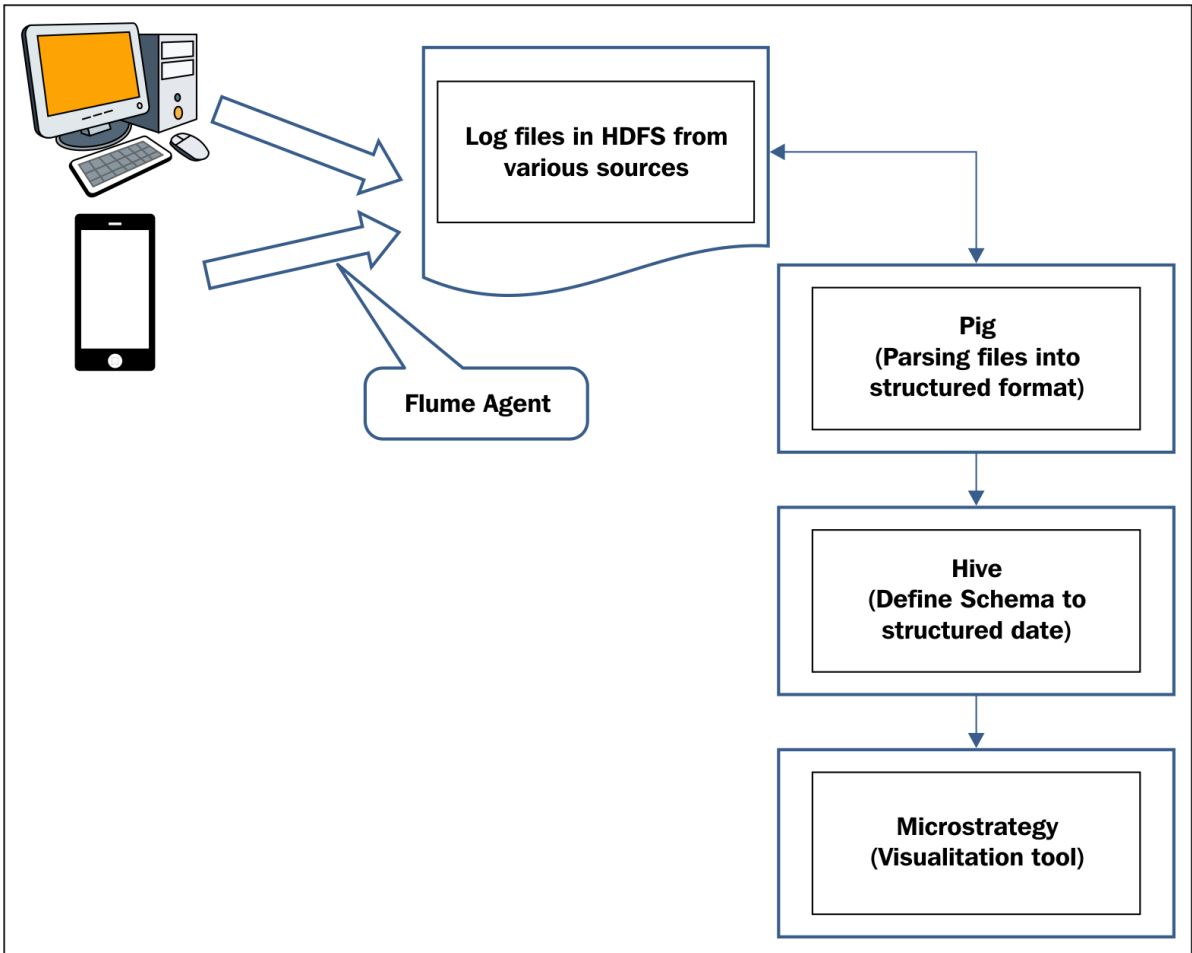
```

Column	Object	Form	Type
1	 Country Region	 ID	Text
2	 City	 ID	Text
3	 Sales Amount		Number

Chapter 11: Big Data Analytics with MicroStrategy







Virtual Machine Settings

Hardware | Options

Device	Summary
Memory	5.9 GB
Processors	4
Hard Disk (SCSI)	48.8 GB
CD/DVD (IDE)	Auto detect
Network Adapter	NAT
Network Adapter 2	Custom (VMnet1)
Network Adapter 3	Custom (VMnet1)
Display	Auto detect

Add... Remove

Device status

Connected

Connect at power on

Network connection

Bridged: Connected directly to the physical network

Replicate physical network connection state

NAT: Used to share the host's IP address

Host-only: A private network shared with the host

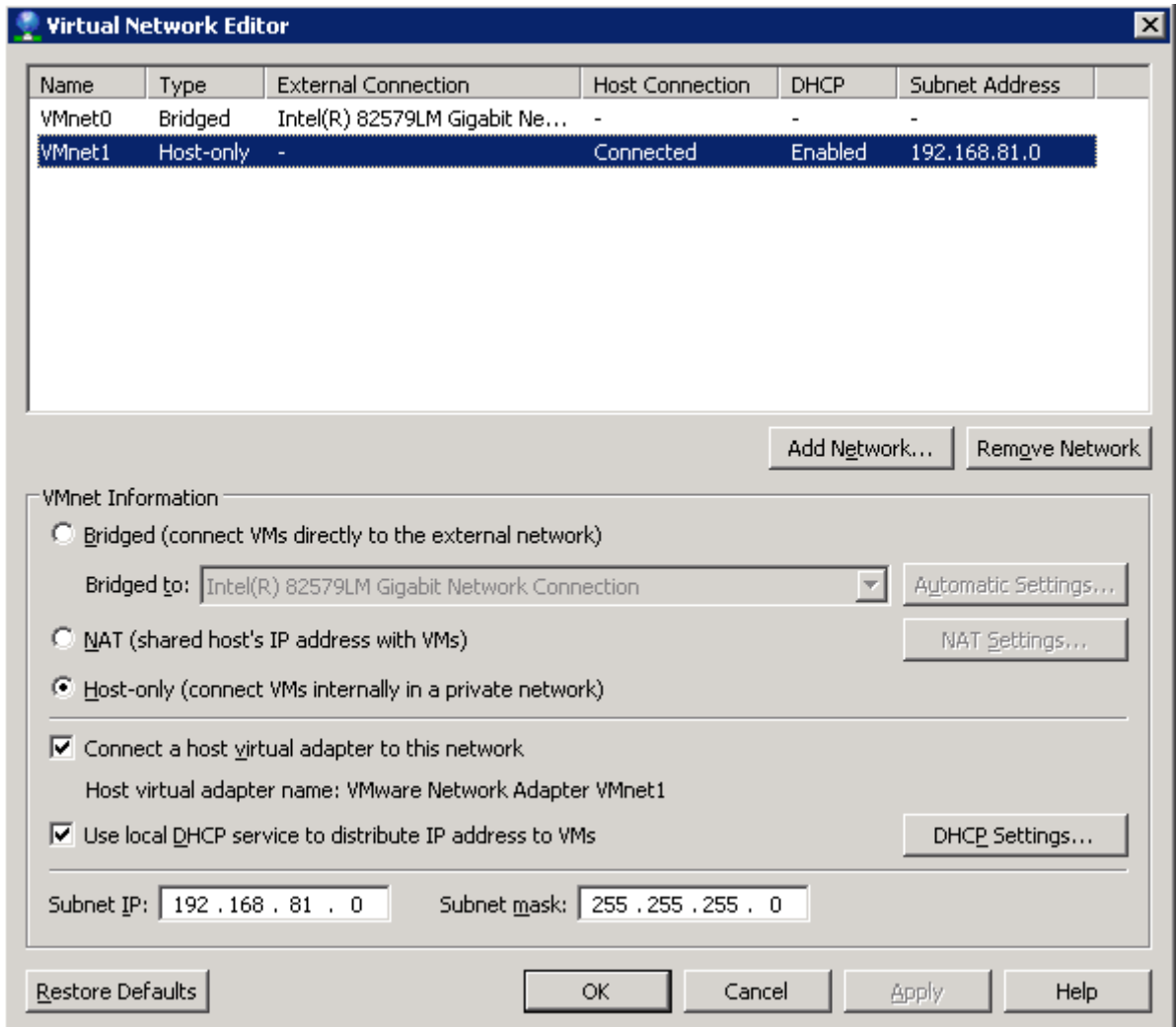
Custom: Specific virtual network

VMnet1 (Host-only)

LAN segment:

LAN Segments... Advanced...

OK Cancel Help



Virtual Network Editor

Name	Type	External Connection	Host Connection	DHCP	Subnet Address
VMnet0	Bridged	Intel(R) 82579LM Gigabit Ne...	-	-	-
VMnet1	Host-only	-	Connected	Enabled	192.168.81.0

VMnet Information

Bridged (connect VMs directly to the exte
 Bridged to: Intel(R) 82579LM Gigabit Ne
 NAT (shared host's IP address with VMs)
 Host-only (connect VMs internally in a pri

Connect a host virtual adapter to this network
 Host virtual adapter name: VMware Network Adapter VMnet1
 Use local DHCP service to distribute IP address to VMs

Subnet IP: 192 . 168 . 81 . 0 Subnet mask: 255 . 255 . 255 . 0

DHCP Settings

Network: vmnet1
 Subnet IP: 192.168.81.0
 Subnet mask: 255.255.255.0
 Starting IP address: 192 . 168 . 81 . 128
 Ending IP address: 192 . 168 . 81 . 137
 Broadcast address: 192.168.81.255



Days: Hours: Minutes:
 Default lease time: 0 0 30
 Max lease time: 0 2 0

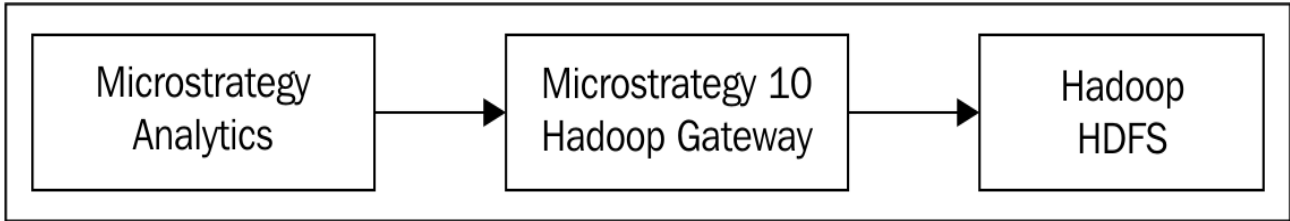
192.168.81.130:8080/#/main/dashboard/metrics

Ambari Sandbox 0 ops 0 alerts Dashboard Services Hosts Alerts maria_dev

Metrics Heatmaps Config History

Metric Actions Last 1 hour

HDFS Disk Usage  32%	DataNodes Live 1/1	HDFS Links NameNode Secondary NameNode 1 DataNodes <input type="button" value="More..."/>	Memory Usage No Data Available	Network Usage No Data Available
CPU Usage No Data Available	Cluster Load No Data Available	NameNode Heap  20%	NameNode RPC 0.50 ms	NameNode CPU WIO n/a
NameNode Uptime 397.2 s	HBase Master Heap n/a	HBase Links No Active Master 1 RegionServers n/a <input type="button" value="More..."/>	HBase Ave Load n/a	HBase Master Uptime n/a



Hortonworks Hive ODBC Driver DSN Setup [X]

Data Source Name:

Description:

Hive Server Type:

Service Discovery Mode:

Host(s):

Port:

Database:

ZooKeeper Namespace:

Authentication

Mechanism:

Realm:

Host FQDN:

Service Name:

User Name:

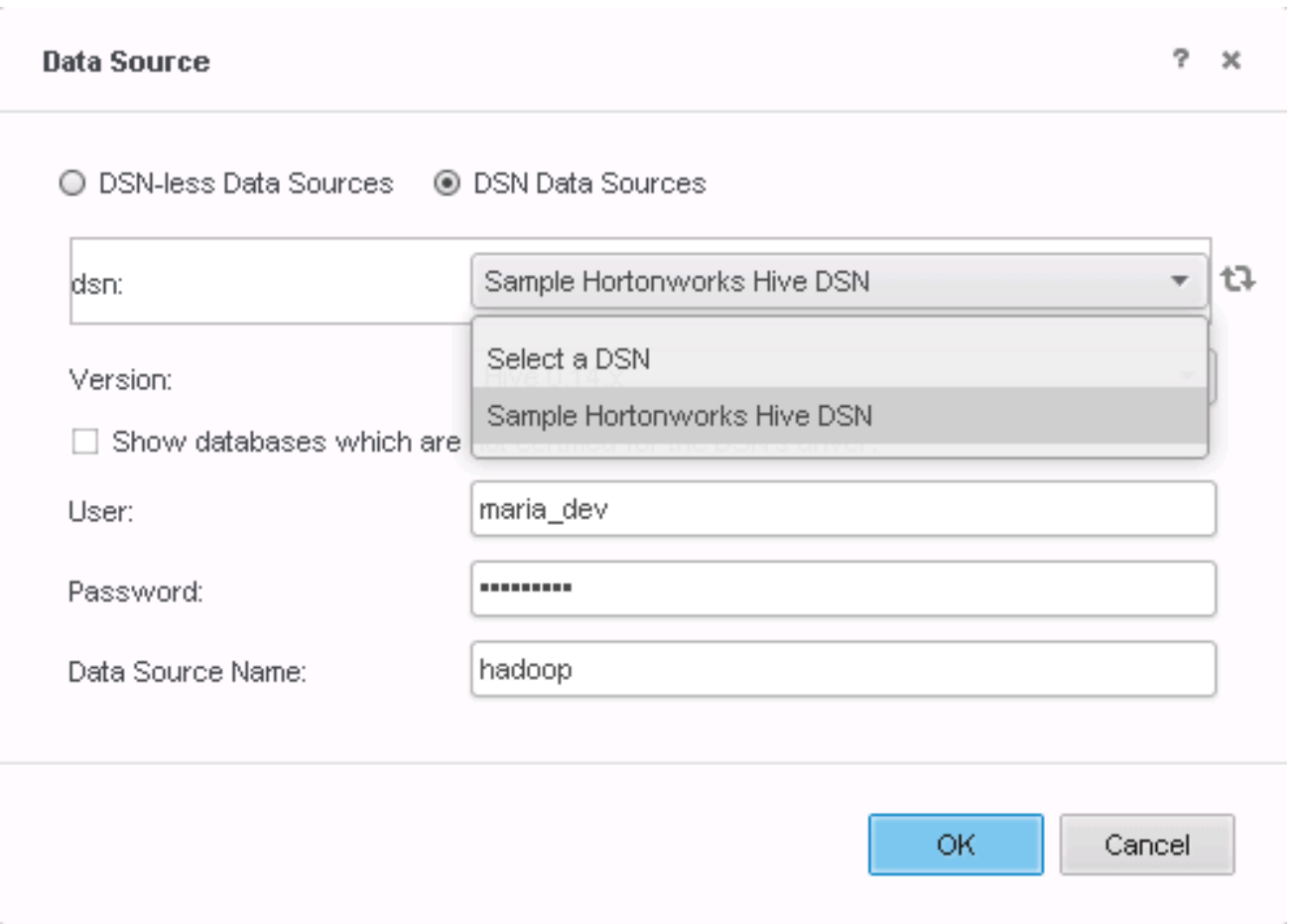
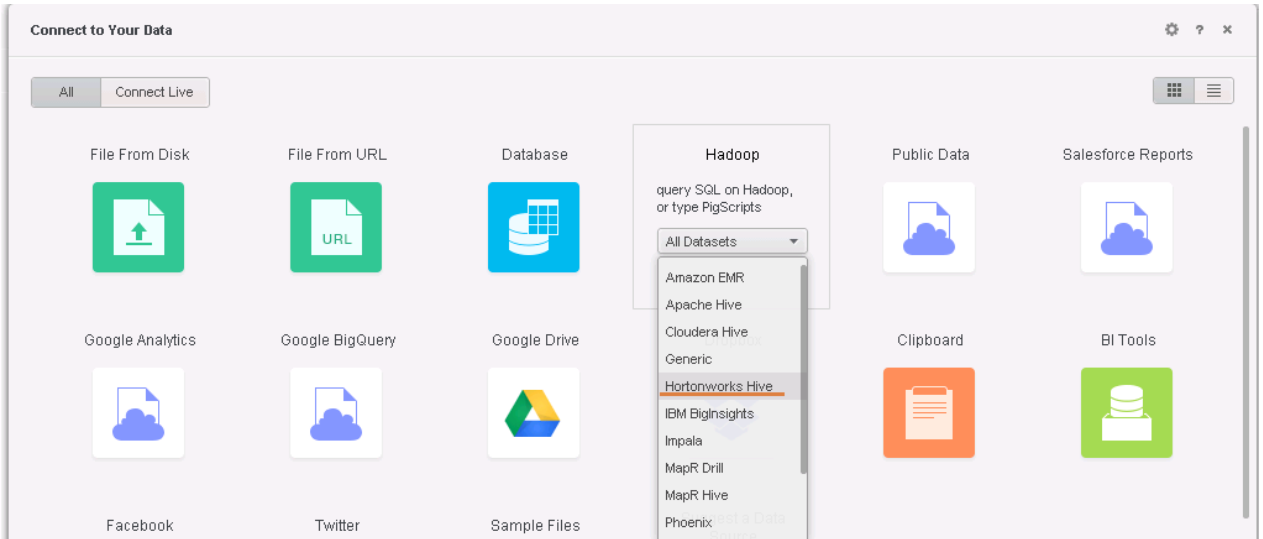
Password:

Save Password (Encrypted)

Delegation UID:

Thrift Transport:

v2.0.5.1005 (64 bit)



Import from Tables

DATA SOURCES

[Add...](#)

- hadoop
- New Data Source
- New Data Source (1)
- test

AVAILABLE TABLES



- sample_07
- sample_08
- call_detail_records
- customer_details
- recharge_details

HIVE
tables

Database Explorer

default

Search tables...

Databases

- default
- sample 07
- sample 08
- demo
 - call detail records
 - customer details
 - recharge details

Query Editor

Worksheet

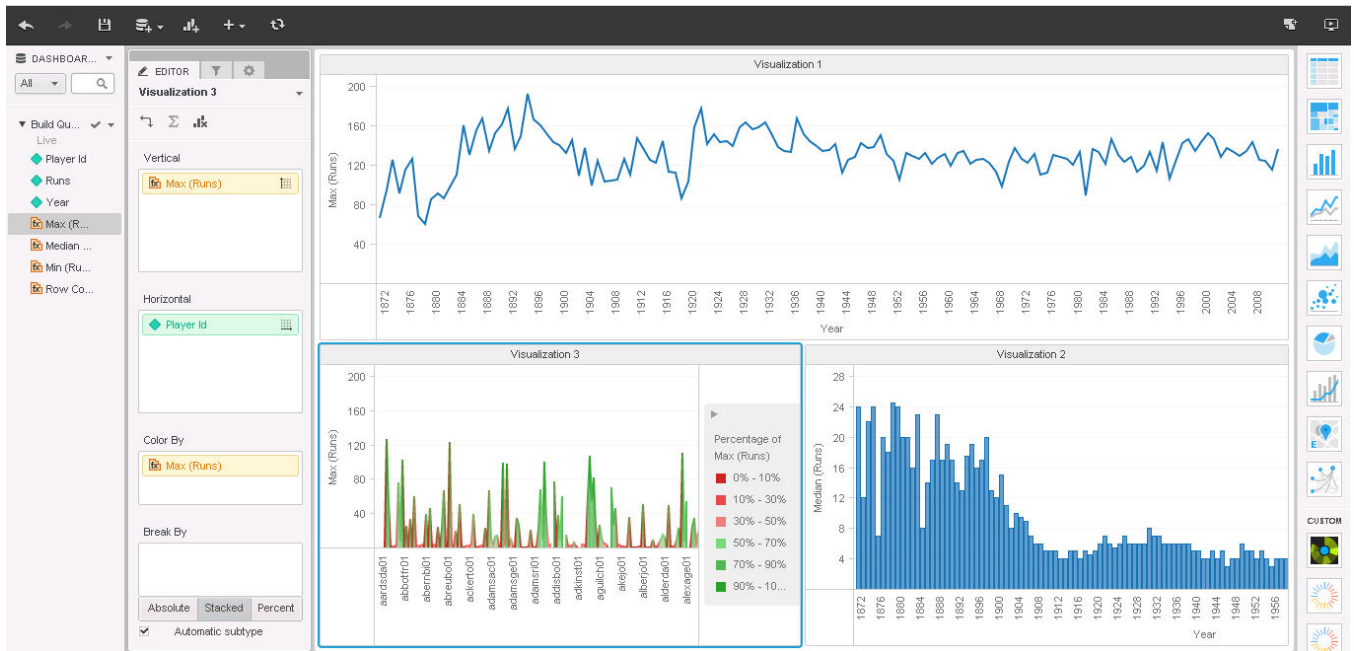
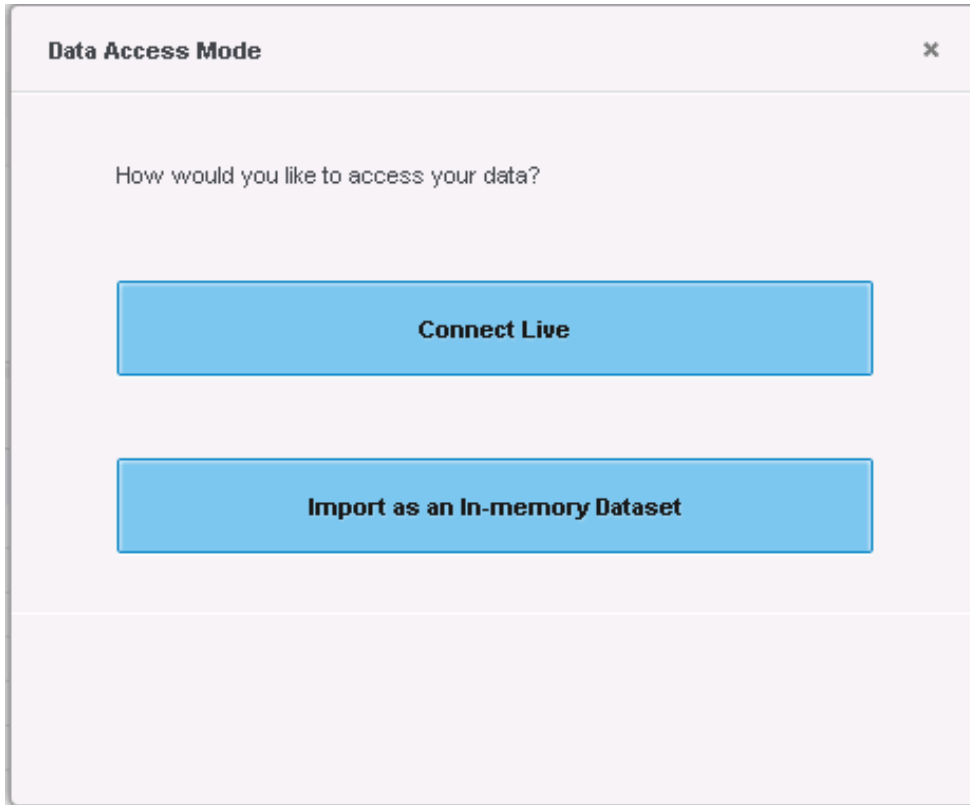
1

Execute Explain Save as... New Worksheet


SQL Settings Home Links TEZ

maria_dev

- YARN Queue Manager
- HDFS Files
- Hive View
- Pig
- Slider Apps View



Preview All Objects View... ? x



Add a new table

Build Query

Attributes

- ◆ Player Id
- ◆ Year
- ◆ Runs

Metrics

Build Query Preview (shows first 50 rows of data) Wrangle...

◆ Player Id	◆ Year	◆ Runs
playerID		
aardsda01	2004	0
aardsda01	2006	0

Finish
Cancel

Wrangle Your Data

Select Column ▾

Q Search ▾

History Script ↔ ⏪ ⏩ ↕ ↕ Reset to Initial

Suggestions

player_id	year
playerID	
aardsda01	2004
aardsda01	2006
aardsda01	2007
aardsda01	2008
aardsda01	2009
aardsda01	2010
aaronha01	1954
aaronha01	1955
aaronha01	1956
aaronha01	1957
aaronha01	1958
aaronha01	1959
aaronha01	1960
aaronha01	1961
aaronha01	1962
aaronha01	1963

Delete

- Delete Column
- Delete Row
- Remove Duplicate Cells
- Remove Duplicate Rows
- [Delete Row Included In Selectors]
- [Delete Row Not-included In Selectors]

Extract

- Extract By Fixed Length
- Extract Before Separator
- Extract After Separator

Selector

- Text Selector
- Numeric Selector
- Timeline Selector

1 - 50 (1000 Rows)

« First
 < Previous
 Next >
Last »

OK
Cancel

Wrangle Your Data

Select Column ▼ Select Function ▼

Suggestions

State	County	Level	Store	Store Coordinates
VA	ACC	1	A	38.909983, -77.22528
VA	ACC	1	P	38.294236, -77.475467
VA	ALB	1	B	38.911319, -77.042975
VA	ALL	2	C	41.234168, -73.728194
VA	AME	2	D	39.966313, -82.934737
VA	AMH	2	E	33.785689, -84.45085
VA	APP	2	F	36.533619, -86.867843
VA	ARL	2	G	32.941534, -96.711593

Wrangle Your Data

Store Coordinates ▼ Split On Separator ▼ Comma ▼

Delete Column
Fill Down
Blank Down
To Title Case

State	County	Level	Store	Store Coordinates
VA	ACC	1	A	38.909983, -77.22528
VA	ACC	1	P	38.294236, -77.475467
VA	ALB	1	B	38.911319, -77.042975
VA	ALL	2	C	41.234168, -73.728194
VA	AME	2	D	39.966313, -82.934737
VA	AMH	2	E	33.785689, -84.45085

Wrangle Your Data

Select Column ▼ Select Function ▼

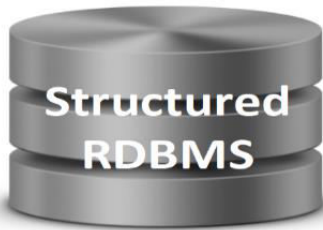
State	County	Level	Store	Store Coordinates 1	Store Coordinates 2
VA	ACC	1	A	38.909983	-77.22528
VA	ACC	1	P	38.294236	-77.475467
VA	ALB	1	B	38.911319	-77.042975
VA	ALL	2	C	41.234168	-73.728194

Traditional

Schema at Write

SQL

ETL



Splunk

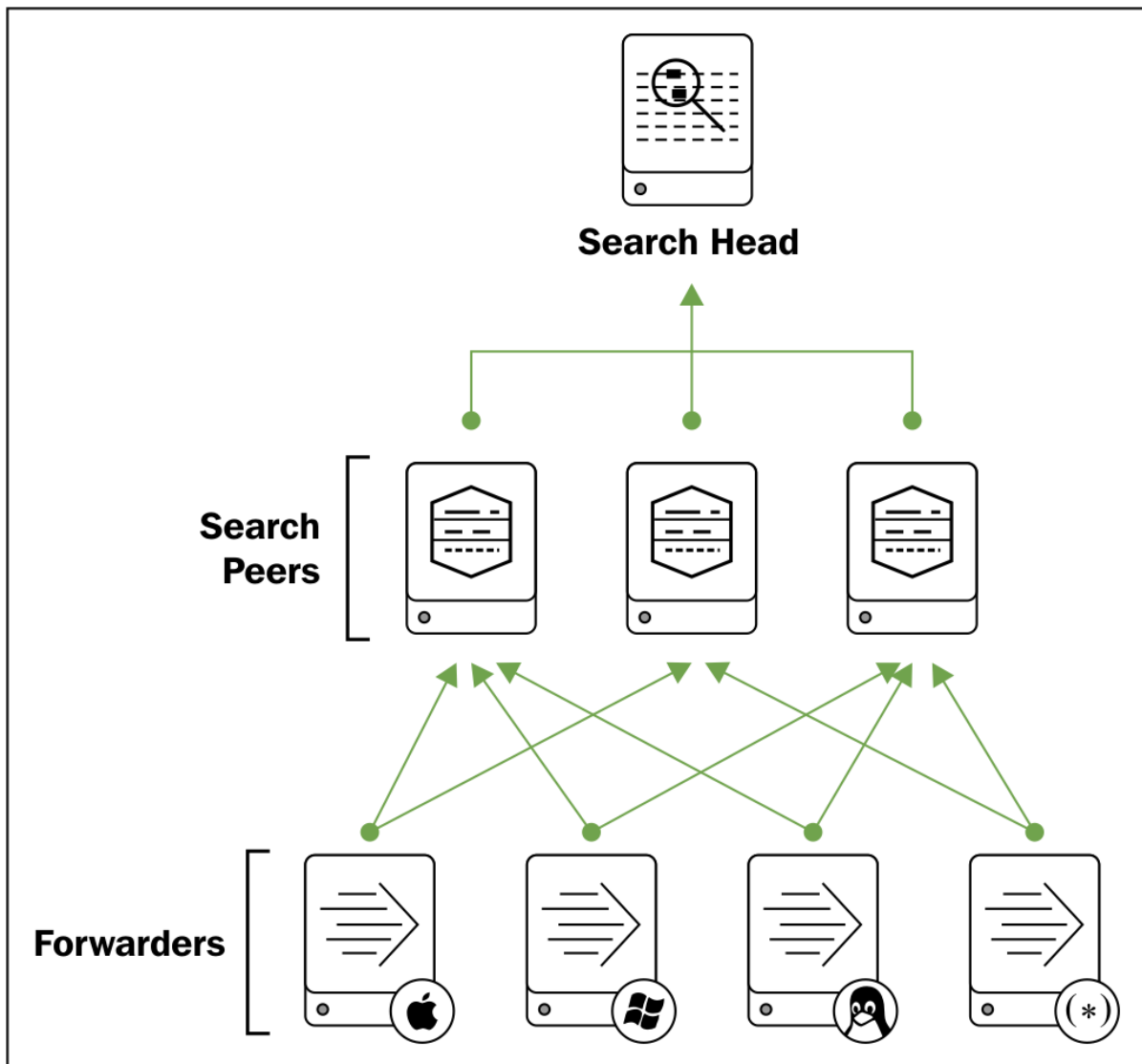
Schema at Read

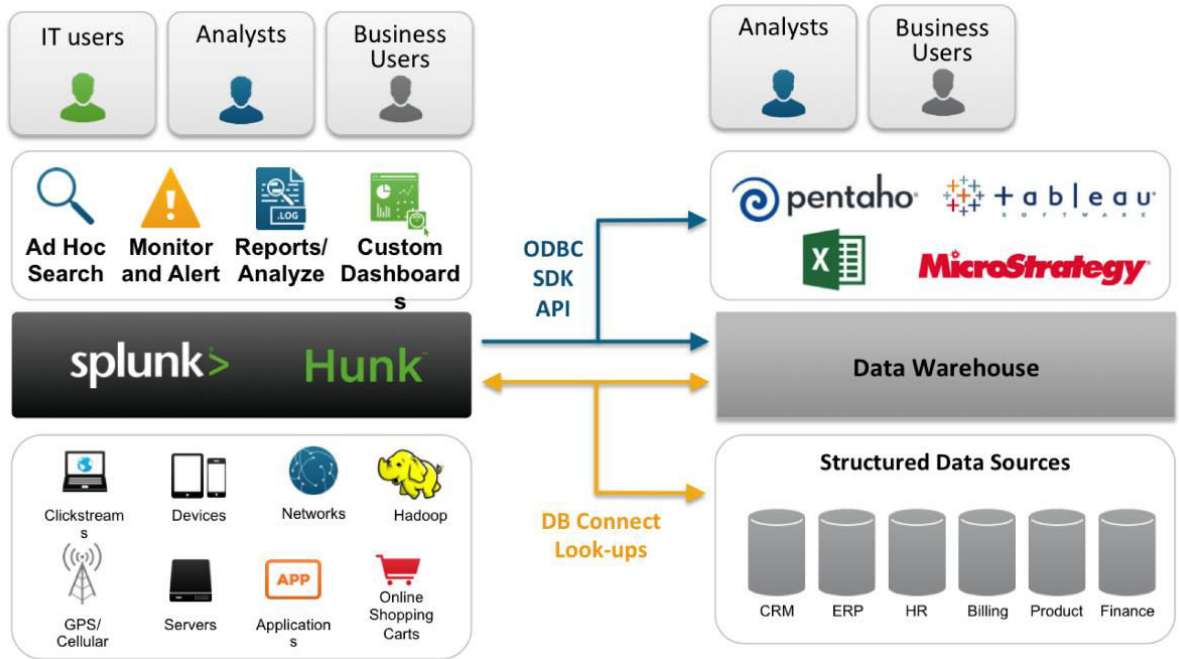
Search

Universal Indexing

Unstructured

Volume :: Velocity :: Variety





i Data preview will be skipped, it is not supported for directories.

File or Directory?

On Windows: c:\apache\apache.error.log or \\hostname\apache\apache.error.log. On Unix: /var/log or /mnt/www01/var/log.

Whitelist?

Blacklist?

Edit Permissions



Report Wed Data

Owner admin

App search

Display For

Owner

App

All apps

Run As

Owner

User

[Learn More](#)

	Read	Write
Everyone	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
admin	<input type="checkbox"/>	<input type="checkbox"/>
can_delete	<input type="checkbox"/>	<input type="checkbox"/>
power	<input type="checkbox"/>	<input type="checkbox"/>
splunk-system-role	<input type="checkbox"/>	<input type="checkbox"/>
user	<input type="checkbox"/>	<input type="checkbox"/>

Cancel

Save

Create a Data Source

Click Next to save default values, or provide values for the DSN.

Data Source Name:	<input type="text" value="Splunk ODBC"/>
Login ID:	<input type="text" value="admin"/>
Password:	<input type="password" value="••••••••"/> <input checked="" type="checkbox"/> Enter and Save Password
Server URL:	<input type="text" value="https://localhost:8089"/>

Data Source ? ×

DSN-less Data Sources DSN Data Sources

dsn: ↻

Version:

Show databases which are not certified for the DSN's driver.

User:

Password:

Data Source Name:

Import from Tables

DATA SOURCES Add...

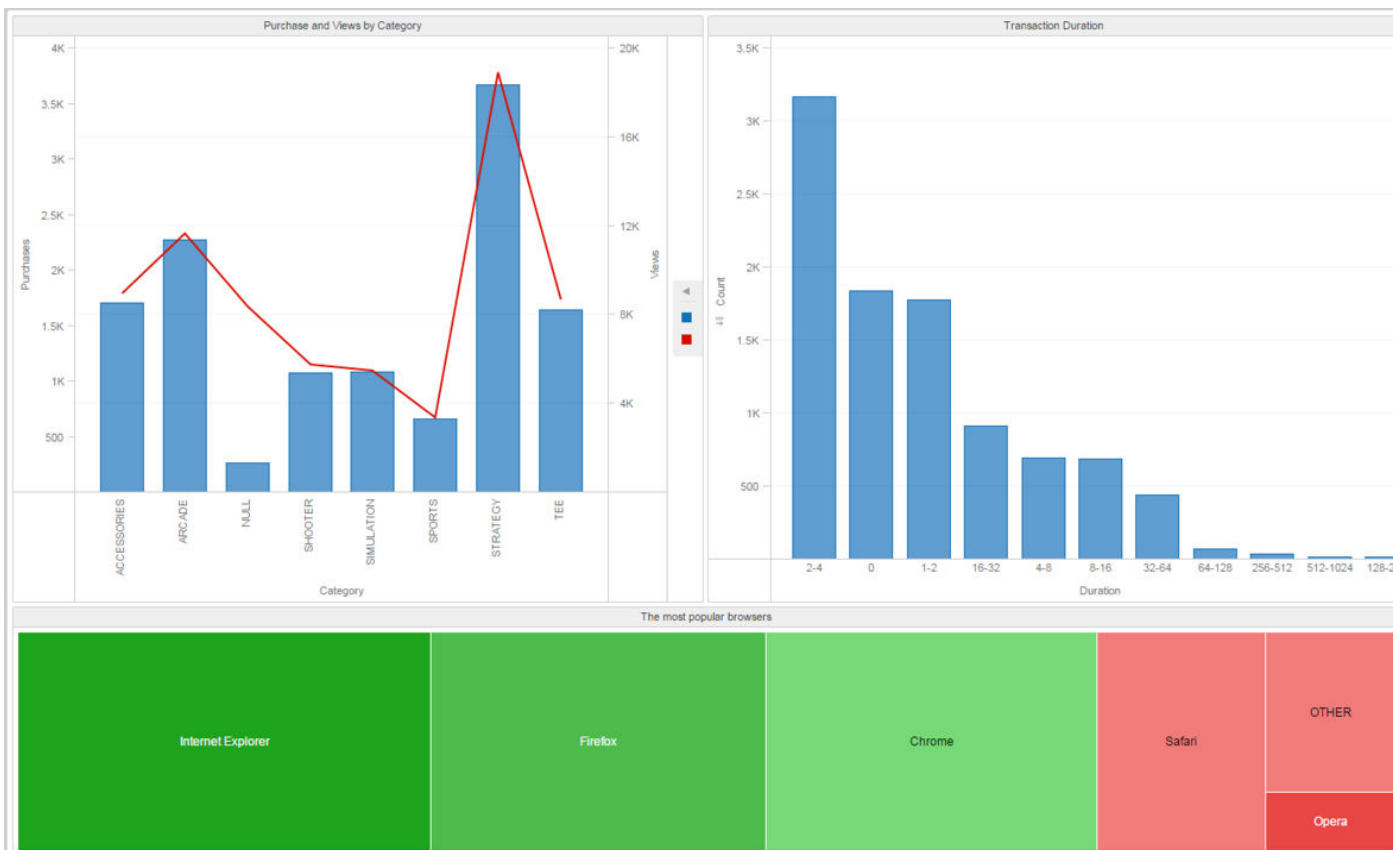
- Splunk Source

AVAILABLE TABLES

- DMC Asset - Build Full
- DMC Asset - Build Standalone Ass...
- DMC Asset - Build Standalone Co...
- Errors in the last 24 hours
- Errors in the last hour
- Indexing workload
- License Usage Data Cube
- Messages by minute last 3 hours
- Purchases and Views by Product ...
- Splunk errors last 24 hours
- The most popular Internet Browsers**
 - browser: [VarChar]
 - count: [Double]
 - percent: [Double]
 - _tc: [Double]
- Top 20 browsers

The most popular Internet Browsers ✕


Back
Finish
Prepare Data
Cancel



Chapter 12: MicroStrategy Troubleshooting

Welcome to the community.

Explore, search, and learn more about MicroStrategy with fellow users. Get started by reviewing our [guidelines](#).



Community Search


Discussion forums

Ask questions, find solutions, and share insights about your MicroStrategy implementation.

[Browse discussions](#)



Knowledge base

Discover thousands of technical documents, latest release notes, and product manuals.

[Find tech notes](#)



Idea exchange

Make an impact: browse, vote on, and share your feature requests with our product team.

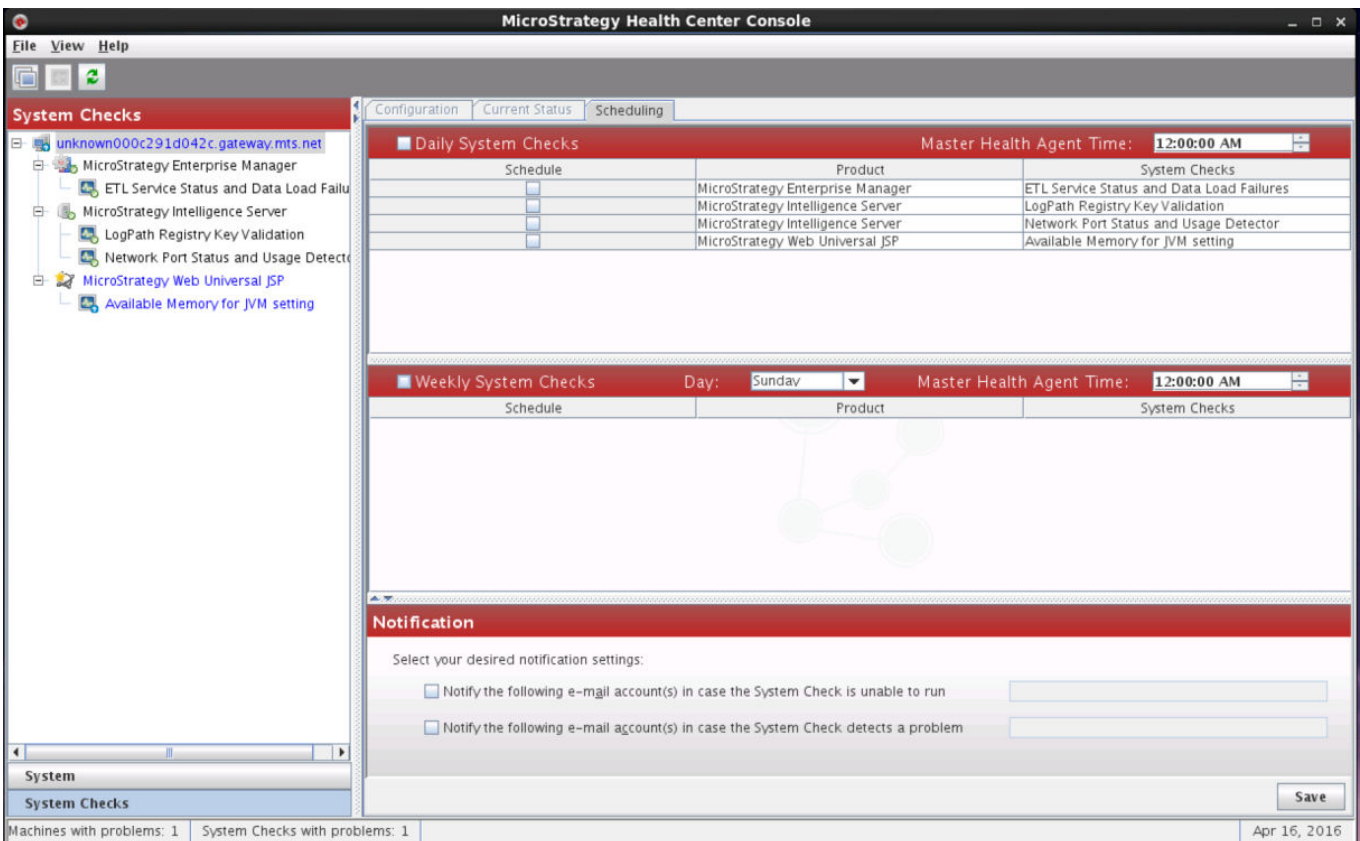
[Post an idea](#)



Developer zone

Access the developer library and API documentation, as well as discussions and tech notes.

[Browse resources](#)



MicroStrategy Health Center Console

File View Help

System Checks

- unknown00c291d042c.gateway.mts.net
 - MicroStrategy Enterprise Manager
 - ETL Service Status and Data Load Failures
 - MicroStrategy Intelligence Server
 - LogPath Registry Key Validation
 - Network Port Status and Usage Detector
 - MicroStrategy Web Universal JSP
 - Available Memory for JVM setting

Configuration | Current Status | Scheduling

Daily System Checks Master Health Agent Time: 12:00:00 AM

Schedule	Product	System Checks
<input type="checkbox"/>	MicroStrategy Enterprise Manager	ETL Service Status and Data Load Failures
<input type="checkbox"/>	MicroStrategy Intelligence Server	LogPath Registry Key Validation
<input type="checkbox"/>	MicroStrategy Intelligence Server	Network Port Status and Usage Detector
<input type="checkbox"/>	MicroStrategy Web Universal JSP	Available Memory for JVM setting

Weekly System Checks Day: Sunday Master Health Agent Time: 12:00:00 AM

Schedule	Product	System Checks

Notification

Select your desired notification settings:

- Notify the following e-mail account(s) in case the System Check is unable to run
- Notify the following e-mail account(s) in case the System Check detects a problem

[Save](#)


Machines with problems: 1 | System Checks with problems: 1 | Apr 16, 2016

```

DSSErrors.log X
2016-04-14 17:49:43.947-08:00 [HOST:unknown000c291d042c][PID:3127][THR:512030464][Kernel][Info] PrintServerDef: Project Info - Default
RWD or Report GUID:
2016-04-14 17:49:43.948-08:00 [HOST:unknown000c291d042c][PID:3127][THR:512030464][Kernel][Info] PrintServerDef: Project Info - Email
Burst Default Device ID .
2016-04-14 17:49:43.950-08:00 [HOST:unknown000c291d042c][PID:3127][THR:512030464][Kernel][Info] PrintServerDef: Project Info - Max Data
Cells for Windows: 1000000
2016-04-14 17:49:43.950-08:00 [HOST:unknown000c291d042c][PID:3127][THR:512030464][Kernel][Info] PrintServerDef: Project Info - Max Data
Cells for Mac: 1000000
2016-04-14 17:49:43.951-08:00 [HOST:unknown000c291d042c][PID:3127][THR:512030464][Kernel][Info] PrintServerDef: ----- Info for
Project 3: end -----
2016-04-14 17:49:43.953-08:00 [HOST:unknown000c291d042c][PID:3127][THR:512030464][Kernel][Info] PrintServerDef: ----- settings for
projects
2016-04-14 17:49:43.954-08:00 [HOST:unknown000c291d042c][PID:3127][THR:512030464][Kernel][Info] PrintServerDef: PU Info - PU
name:Browsing, Queue name:BrowsingQ, Init thread count:4, Min thread count:4, Max thread count:4, Number of tasks:2, Number of subqueues:1.
2016-04-14 17:49:43.955-08:00 [HOST:unknown000c291d042c][PID:3127][THR:512030464][Kernel][Info] PrintServerDef: PU Info - PU
name:Resolution, Queue name:RQ1, Init thread count:8, Min thread count:8, Max thread count:8, Number of tasks:8, Number of subqueues:1.
2016-04-14 17:49:43.956-08:00 [HOST:unknown000c291d042c][PID:3127][THR:512030464][Kernel][Info] PrintServerDef: PU Info - PU
name:QueryExecution, Queue name:QueryQ, Init thread count:2, Min thread count:2, Max thread count:2, Number of tasks:5, Number of subqueues:3.
2016-04-14 17:49:43.957-08:00 [HOST:unknown000c291d042c][PID:3127][THR:512030464][Kernel][Info] PrintServerDef: PU Info - PU
name:AnalyticalPU, Queue name:AlyQ, Init thread count:6, Min thread count:6, Max thread count:6, Number of tasks:8, Number of subqueues:1.
2016-04-14 17:49:43.958-08:00 [HOST:unknown000c291d042c][PID:3127][THR:512030464][Kernel][Info] PrintServerDef: PU Info - PU
name:SQLEngine, Queue name:SQLEngQ, Init thread count:6, Min thread count:6, Max thread count:6, Number of tasks:5, Number of subqueues:1.
2016-04-14 17:49:43.959-08:00 [HOST:unknown000c291d042c][PID:3127][THR:512030464][Kernel][Info] PrintServerDef: PU Info - PU
name:DataFormattingPU, Queue name:DataFormattingQ, Init thread count:4, Min thread count:4, Max thread count:4, Number of tasks:7, Number of
subqueues:2.
2016-04-14 17:49:43.960-08:00 [HOST:unknown000c291d042c][PID:3127][THR:512030464][Kernel][Info] PrintServerDef: PU Info - PU
name:NCSPU, Queue name:NCSQ, Init thread count:20, Min thread count:20, Max thread count:20, Number of tasks:3, Number of subqueues:1.
2016-04-14 17:49:43.961-08:00 [HOST:unknown000c291d042c][PID:3127][THR:512030464][Kernel][Info] PrintServerDef: PU Info - PU
name:EvaluationPU, Queue name:EvalPUQ, Init thread count:-1, Min thread count:-1, Max thread count:-1, Number of tasks:1, Number of subqueues:2.
2016-04-14 17:49:43.962-08:00 [HOST:unknown000c291d042c][PID:3127][THR:512030464][Kernel][Info] PrintServerDef: PU Info - PU
name:StreamingEvaluationPU, Queue name:StreamingEvalPUQ, Init thread count:-1, Min thread count:-1, Max thread count:-1, Number of tasks:1,
Number of subqueues:1.
2016-04-14 17:49:43.963-08:00 [HOST:unknown000c291d042c][PID:3127][THR:512030464][Kernel][Info] PrintServerDef: Thread load balancing
mode: Off
2016-04-14 17:49:43.964-08:00 [HOST:unknown000c291d042c][PID:3127][THR:512030464][Kernel][Info] PrintServerDef: Memory throttling:
Private Bytes (%) = 97, Virtual Bytes (%) = 99, Avail Phys Mem (%) = 0
2016-04-14 17:49:43.965-08:00 [HOST:unknown000c291d042c][PID:3127][THR:512030464][Kernel][Info] PrintServerDef: WS Recover Manager
setting: Inbox Location = \Inbox\masterinbhi

```

Plain Text Tab Width: 8 Ln 308, Col 204 INS

 DSSErrors.log	56.1 KB application log	Sat 16 Apr 2016 12:22:42 AM PDT
 DSSErrors.log.bak00	2.0 MB plain text document	Thu 14 Apr 2016 05:49:43 PM PDT

MicroStrategy Diagnostics and Performance Logging Tool

File Tools Help

Select Configuration: **CastorServer instance**

Diagnostics Configuration | Performance Configuration

Use Machine Default Diagnostics Configuration

Component	Dispatcher	System Log	Console Log	File Log
(Default)	Error	<input type="checkbox"/>	<input type="checkbox"/>	DSSErrors
	Fatal	<input type="checkbox"/>	<input type="checkbox"/>	DSSErrors
	Info	<input type="checkbox"/>	<input type="checkbox"/>	<None>
	Warning	<input type="checkbox"/>	<input type="checkbox"/>	<None>
Analytical Engine	Error	<input type="checkbox"/>	<input checked="" type="checkbox"/>	DSSErrors
	Info	<input type="checkbox"/>	<input type="checkbox"/>	<None>
	Scope Trace	<input type="checkbox"/>	<input type="checkbox"/>	<None>
Analytical Services	Error	<input type="checkbox"/>	<input type="checkbox"/>	DSSErrors
	Major Trace	<input type="checkbox"/>	<input type="checkbox"/>	<None>
	Scope Trace	<input type="checkbox"/>	<input type="checkbox"/>	<None>
Authentication Server	Error	<input type="checkbox"/>	<input type="checkbox"/>	DSSErrors
	Memory Trace	<input type="checkbox"/>	<input type="checkbox"/>	<None>
	Scope Trace	<input type="checkbox"/>	<input type="checkbox"/>	<None>
	Trace	<input type="checkbox"/>	<input type="checkbox"/>	<None>
COM	Error	<input type="checkbox"/>	<input checked="" type="checkbox"/>	DSSErrors
COM Helper	Error	<input type="checkbox"/>	<input checked="" type="checkbox"/>	DSSErrors
COM Serialization	Error	<input type="checkbox"/>	<input checked="" type="checkbox"/>	DSSErrors
COM Shared	Error	<input type="checkbox"/>	<input checked="" type="checkbox"/>	DSSErrors
COM Source Commands	Error	<input type="checkbox"/>	<input checked="" type="checkbox"/>	DSSErrors
COMMarshalMaster	Error	<input type="checkbox"/>	<input checked="" type="checkbox"/>	DSSErrors
	Info	<input type="checkbox"/>	<input type="checkbox"/>	<None>
	Scope Trace	<input type="checkbox"/>	<input type="checkbox"/>	<None>
COMMarshalSlave	Error	<input type="checkbox"/>	<input checked="" type="checkbox"/>	DSSErrors
	Info	<input type="checkbox"/>	<input type="checkbox"/>	<None>
	Scope Trace	<input type="checkbox"/>	<input type="checkbox"/>	<None>

Database Module

Datamart Executor

Dimensional Storage

Distribution Service

Delivery Trace
	<None>		Error			DSSErrors
Info			<None>			
Persist Result Details			<None>			
Persist Result Trace			<None>			
Scheduler Details			<None>			
Scheduler Trace			<New>			
Summary			<None>			

Log Destination Editor

Select Log Destination: **<New>**

File name: SchedulerTrace

Max. File size (KB): 2048

File Type: Diagnostics

Save Close

Diagnostics Configuration | **Performance Configuration**

Use Machine Default Performance Configuration

Category	Counter	File Log	Statistics
	DSSQueryEngineServerTas...	<input type="checkbox"/>	<input type="checkbox"/>
	DSSQueryEngineServerTas...	<input type="checkbox"/>	<input type="checkbox"/>
	DSSQueryEngineServerTas...	<input type="checkbox"/>	<input type="checkbox"/>
	DSSRemoteServerExecTas...	<input type="checkbox"/>	<input type="checkbox"/>
	DSSRemoteServerExecTas...	<input type="checkbox"/>	<input type="checkbox"/>
	DSSRemoteServerExecTas...	<input type="checkbox"/>	<input type="checkbox"/>
	DSSReportNetServerTask ...	<input type="checkbox"/>	<input type="checkbox"/>
	DSSReportNetServerTask ...	<input type="checkbox"/>	<input type="checkbox"/>
	DSSReportNetServerTask ...	<input type="checkbox"/>	<input type="checkbox"/>
	DSSRequestExecuteTask ...	<input type="checkbox"/>	<input type="checkbox"/>
	DSSRequestExecuteTask ...	<input type="checkbox"/>	<input type="checkbox"/>
	DSSRequestExecuteTask ...	<input type="checkbox"/>	<input type="checkbox"/>
	DSSResolutionServerTask ...	<input type="checkbox"/>	<input type="checkbox"/>
	DSSResolutionServerTask ...	<input type="checkbox"/>	<input type="checkbox"/>
	DSSResolutionServerTask ...	<input type="checkbox"/>	<input type="checkbox"/>
	DSSDataImportDataPrep...	<input type="checkbox"/>	<input type="checkbox"/>
	DSSDataImportDataPrep...	<input type="checkbox"/>	<input type="checkbox"/>
	DSSDataImportDataPrep...	<input type="checkbox"/>	<input type="checkbox"/>
	DSSSQLEngineServerTask ...	<input type="checkbox"/>	<input type="checkbox"/>
	DSSSQLEngineServerTask ...	<input type="checkbox"/>	<input type="checkbox"/>
	DSSSQLEngineServerTask ...	<input type="checkbox"/>	<input type="checkbox"/>
	DSSUpdateCubeTask CPU...	<input type="checkbox"/>	<input type="checkbox"/>
	DSSUpdateCubeTask Elap...	<input type="checkbox"/>	<input type="checkbox"/>
	DSSUpdateCubeTask Tota...	<input type="checkbox"/>	<input type="checkbox"/>

File Log Properties

Log Destination
DSSPerformanceMoni... ▼

Logging Frequency (sec)

Log Counters
Yes ▼

Statistics Properties

Logging Frequency (min)

Persist Statistics
No ▼

Dmitry Anoshin, 



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Developer Resources

Product Manuals

Support Policies and Procedures

Technical Support Offerings

Related Websites

Help & Contact Us

		Metrics	Reseller Order Quantity
Color	Sales Reason		
Black	Demo Event		70,025
	Magazine Advertisement		70,025
	Manufacturer		70,025
	On Promotion		70,025
	Other		70,025
	Price		70,025
	Quality		70,025
	Review		70,025
	Sponsorship		70,025
	Television Advertisement		70,025
Blue	Demo Event		19,689
	Magazine Advertisement		19,689
	Manufacturer		19,689
	On Promotion		19,689
	Other		19,689
	Price		19,689
	Quality		19,689
	Review		19,689
	Sponsorship		19,689
	Television Advertisement		19,689