

Enterprise Reporting: Agenda

- SAP BusinessObjects Intelligence Platform
- Web Intelligence
 - **Introduction**
 - Data Analysis
 - Enhancing Report Presentation

-> Case Study 1

SAP BusinessObjects Web Intelligence

Interactive analysis to gain business insight

Interactive Analysis

Input Controls

Map Reset

Material

(Select All)

MB 90/1 SIX-AXIS INDUSTRIAL R

B 360/1 FOUR-AXIS INDUSTRIAL

MB 90/1 FOUR-AXIS INDUSTRIAL

RB 360/1 SIX-AXIS INDUSTRIAL R

TB 180/1 FOUR-AXIS INDUSTRIAL

No filter applied

Show Help = 1

Summary and Details of Production Results 2009-10

Material Top 5 Materials by Production

Material	Value
B 360/1 FOUR-AXIS INDUSTRIAL ROBOT	12,815,000
RB 360/1 SIX-AXIS INDUSTRIAL ROBOT	11,440,000
TB 180/1 FOUR-AXIS INDUSTRIAL ROBOT	10,325,000
TB 180/1 SIX-AXIS INDUSTRIAL ROBOT	9,360,000
MB 90/1 SIX-AXIS INDUSTRIAL ROBOT	8,400,000

In 2010, we have 21.2% over-production that needs to be accounted for by Q4 this year.

Year	Actual Invoiced Qty	Production Plan Qty
2009	635	636
2010	1,358	1,700

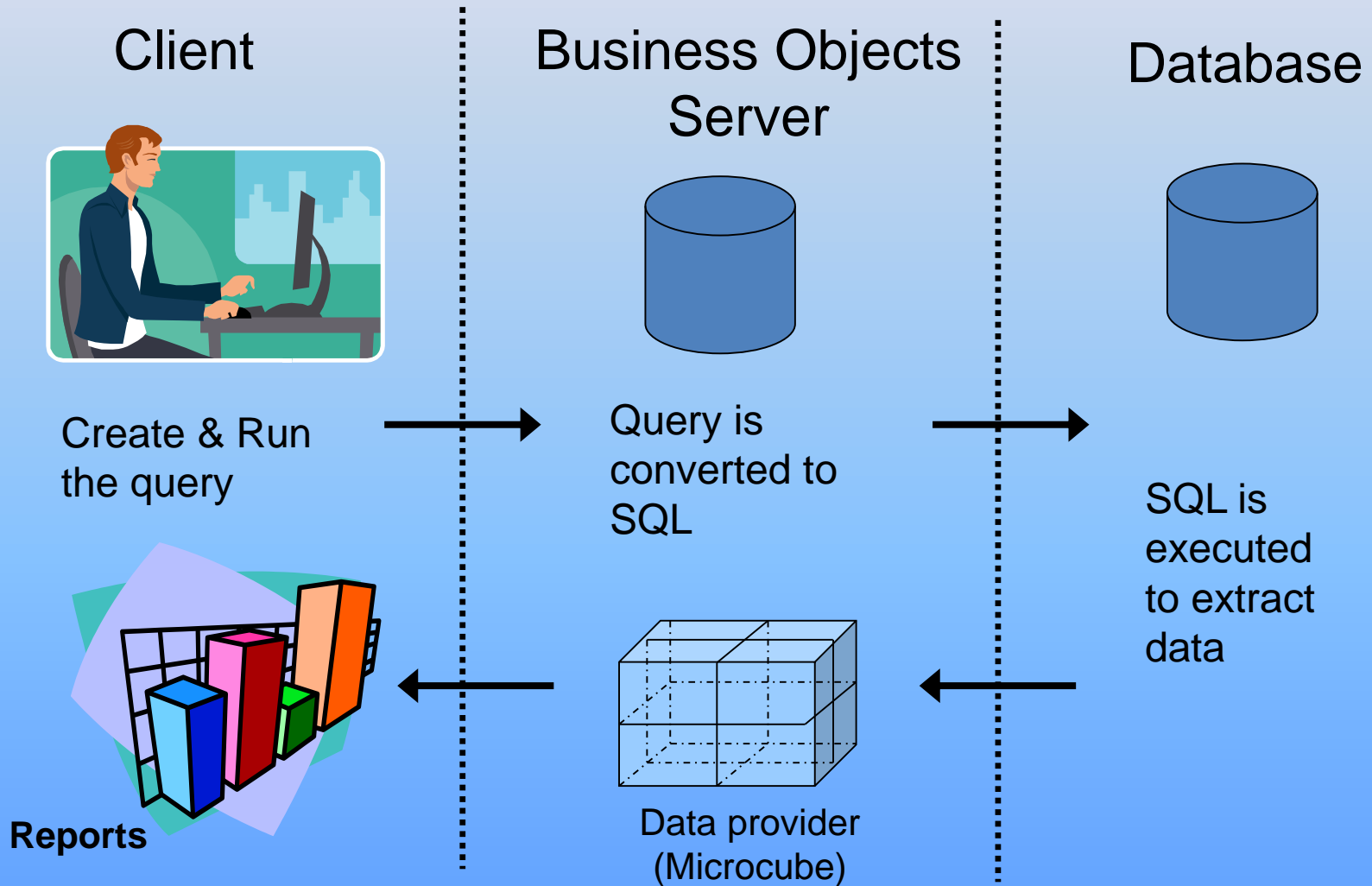
Legend: Actual Invoiced Qty (Blue), Production Plan Qty (Yellow)

2010

Material	Actual Invoiced Qty	Actual Invoiced Value	Actual order confirmed quantity	Actual order confirmed value
MB 90/1 SIX-AXI:	240	8,400,000	295	10,325,000
B 360/1 FOUR-A:	233	12,815,000	300	16,500,000
MB 90/1 FOUR-A:	237	8,295,000	304	10,640,000
RB 360/1 SIX-AXI	208	11,440,000	266	14,630,000
TB 180/1 FOUR-A:	232	10,440,000	315	14,175,000
TB 180/1 SIX-AXI:	208	9,360,000	266	11,970,000
Sum:	1,358	60,750,000	1,746	78,240,000

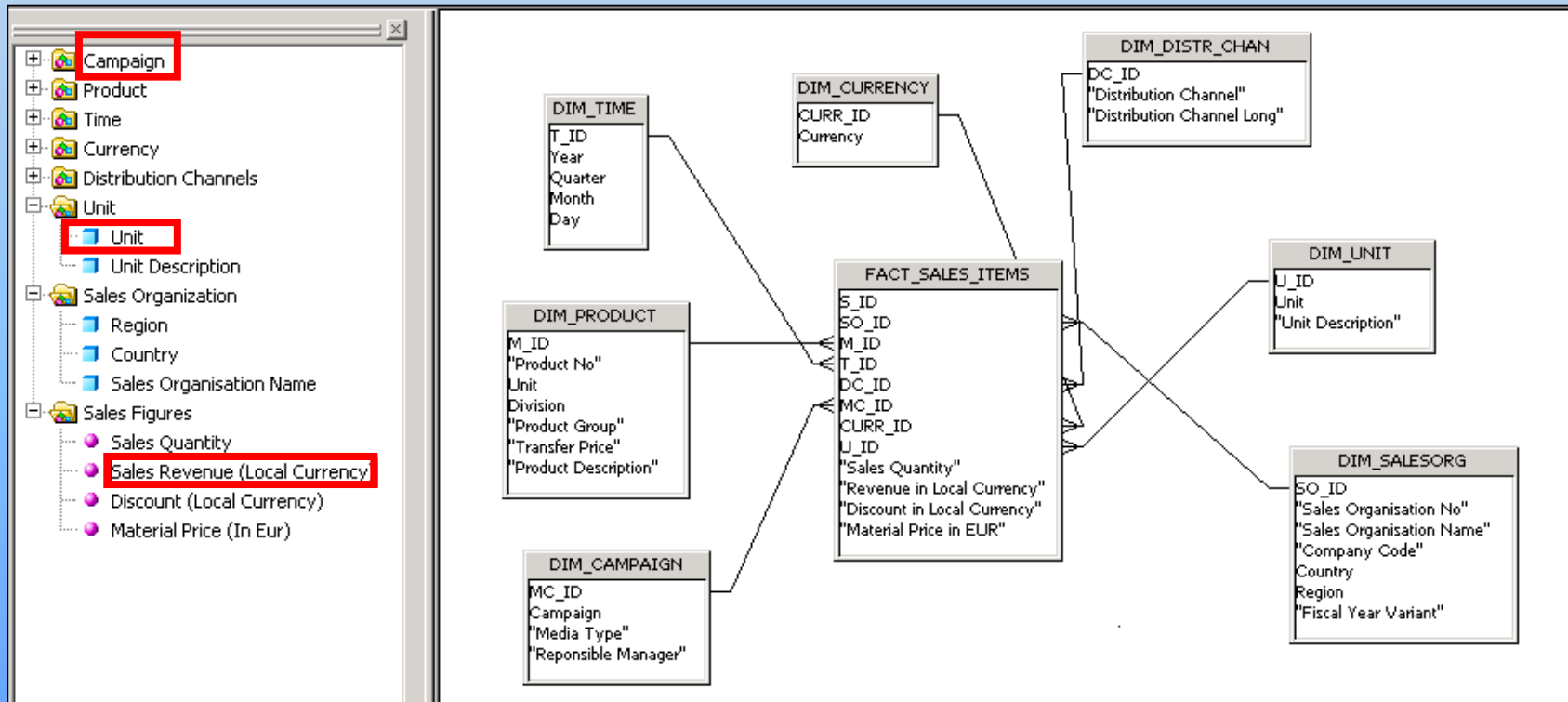
Click on the Year and drag it in the table to remove the section and add time to the table

Web Intelligence Concepts (1/2)



Web Intelligence Concepts (2/2)

WebI uses a Universe to access data. The Universe is a semantic layer. It is composed of Classes and objects like Dimensions, Measures and Details (see below...)



Starting Web Intelligence (1/2)

1. Log into Infoview
2. Create a Web Intelligence document from the Homepage

Log On to InfoView

Welcome to BusinessObjects

Enter your user information and click Log On.
(if you are unsure of your account information, contact your system administrator)

System:

User name:

Password:

Authentication:

BusinessObjects XI
Release 2

[Personalize InfoView now](#)

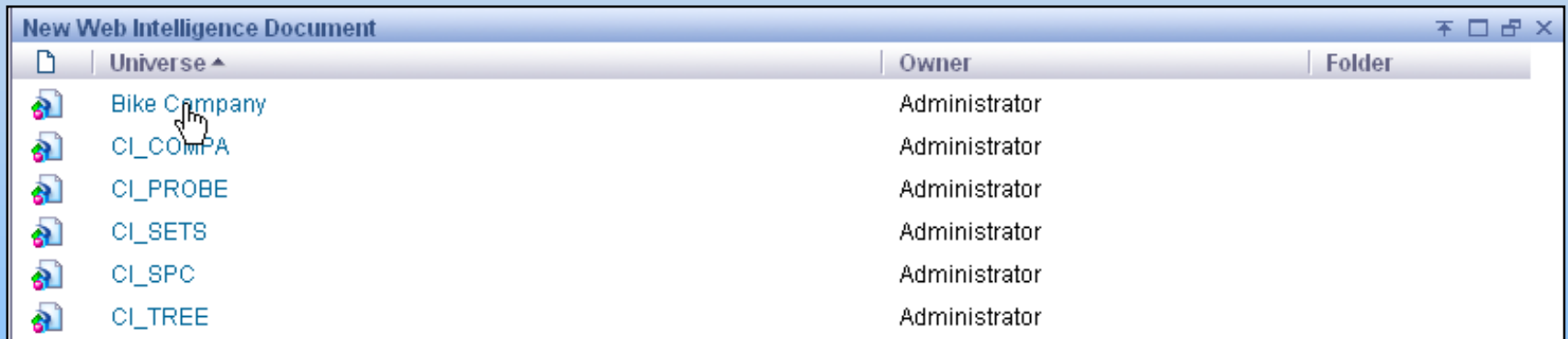
[Go to InfoView Inbox](#)

BusinessObjects InfoView collects and presents business intelligence information and provides:

- Complete viewing and interaction for query & analysis, reporting, and performance management
- Integrated collaboration with threaded discussions, intuitive navigation, and support for 3rd party documents
- Advanced scheduling and distribution capabilities making it easier to share information with others

Starting Web Intelligence (2/2)

3. Choose the Universe on which to report on



The screenshot shows a window titled "New Web Intelligence Document" with a list of universes. A mouse cursor is pointing at the "Bike Company" universe. The table below represents the data shown in the screenshot.

Universe	Owner	Folder
Bike Company	Administrator	
CI_COMP	Administrator	
CI_PROBE	Administrator	
CI_SETS	Administrator	
CI_SPC	Administrator	
CI_TREE	Administrator	

The Java Report Panel – Edit Query View (1/2)

Data Tab – Displays the Universe classes and objects that reference the selected data source

The screenshot shows the 'New Web Intelligence Document' window in the 'Edit Query' view. The 'Data' tab is active, displaying a hierarchical tree of objects for the 'Bike Company' data source. The objects are categorized into 'Dimensions' and 'Measures'. The 'Result Objects' pane is empty, and the 'Query Filters' pane is also empty. A red box highlights the 'Data' tab, and a red arrow points from the text above to it. A black arrow points from the text '1. Drag the objects into Result Objects pane to create a query' to the 'Result Objects' pane.

Dimensions

- Campaign
- Product
- Time
 - Year
 - Quarter
 - Month
 - Day
- Currency
- Distribution Channels
- Unit
- Sales Organization
 - Region
 - Country
 - Sales Organisation Name
- Sales Figures

Measures

- Sales Quantity
- Sales Revenue (Local Currency)
- Discount (Local Currency)
- Material Price (In Eur)

1. Drag the objects into Result Objects pane to create a query

The Java Report Panel – Edit Query View (2/2)

The screenshot displays the 'New Web Intelligence Document' window in the Edit Query view. The interface is divided into several sections:

- Toolbar:** Located at the top, it includes buttons for 'Edit Query', 'Edit Report', and a red-bordered 'Run Query' button. An arrow points from the text '2. Run the Query' to this button.
- Data Panel:** On the left, it shows a hierarchical tree structure for 'Bike Company' with categories like Campaign, Product, Time (Year, Quarter, Month, Day), Currency, Distribution Channels, Unit, Sales Organization (Region, Country, Sales Organisation Name), and Sales Figures (Sales Quantity, Sales Revenue, Discount, Material Price).
- Result Objects:** A central panel containing three objects: 'Country', 'Year', and 'Sales Quantity'. The 'Sales Quantity' object is highlighted with a purple dot.
- Query Filters:** A bottom panel with a text area containing the instruction: 'To filter the query, drag predefined filters here or drag objects here then use the Filter Editor to define custom filters.'

At the bottom left, there are radio buttons for 'All Objects' (selected) and 'Hierarchies'. The bottom status bar shows 'Query 1' and navigation icons.

The Java Report Panel – Edit Report View

A WebI document consists of **(1)** one or more reports **(2)** one or more Blocks and **(3)** the data provider

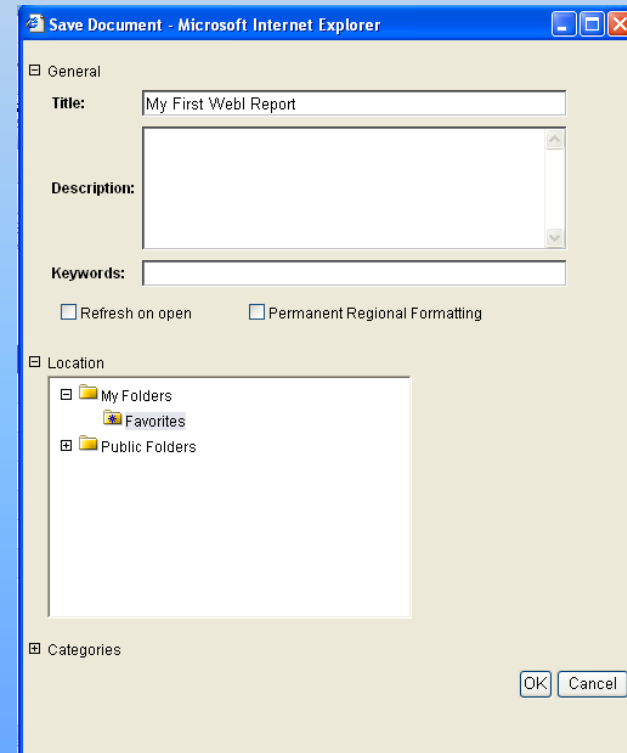
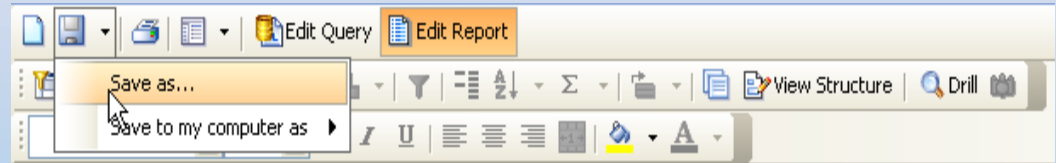
The screenshot displays the 'Edit Report' interface. On the left, a 'Data' tree is highlighted with a red box and labeled **(3)**. It shows a 'Document' node containing 'Country', 'Year', and 'Sales Quantity' fields. The main area shows a report titled 'Report Title' with a table of data, also highlighted with a red box and labeled **(2)**. The table has three columns: 'Country', 'Year', and 'Sales Quantity'. At the bottom, a 'Report 1' tab is highlighted with a red box and labeled **(1)**. The interface includes a toolbar with various icons and a 'Refresh Data' button.

Country	Year	Sales Quantity
Australia	2006	47,065
Australia	2007	52,443
Germany	2006	42,170
Germany	2007	47,634
Germany	2008	117
USA	2006	38,623
USA	2007	43,273

Saving a New WebI Document

WebI documents can be saved in Infoview into the following folders...

1. **Personal** folders: exclusively for own reference
2. **Public** folders: for sharing with other users



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The Java Report Panel – Edit Report View (Recap)

A WebI document consists of **(1)** one or more reports **(2)** one or more Blocks and **(3)** the data provider

The screenshot displays the Java Report Panel interface. On the left, a tree view under 'Data' shows a 'Document' folder containing 'Country', 'Year', and 'Sales Quantity' fields, highlighted with a red box and labeled **(3)**. The main area shows a report titled 'Report Title' with a table of data, also highlighted with a red box and labeled **(2)**. The table contains the following data:

Country	Year	Sales Quantity
Australia	2006	47,065
Australia	2007	52,443
Germany	2006	42,170
Germany	2007	47,634
Germany	2008	117
USA	2006	38,623
USA	2007	43,273

At the bottom, a tab labeled 'Report 1' is highlighted with a red box and labeled **(1)**. The interface includes a toolbar with various icons and a page indicator showing 'Page 1'.

Enhancing Report Presentation

- The Java Report Panel provides several tools to help structure and enhance reports. These tools include...
 - Tables
 - Charts
 - Breaks, Calculations and Sorts
 - Ranking
 - Alerters
 - Sectioning

Tables

Tables are the simplest style for displaying data. WebI provides 4 different types of tables...

1. Vertical Tables

Country	Year	Sales Quantity
Germany	2006	42,170
Germany	2007	47,634
Germany	2008	117
	Sum:	89,921

2. Horizontal Tables or Financial Tables

Country	Germany	Germany	Germany
Year	2006	2007	2008
Sales Quantity	42,170	47,634	117

Country	Germany
Year	2006
Sales Quantity	42,170
Country	Germany
Year	2007
Sales Quantity	47,634
Country	Germany
Year	2008
Sales Quantity	117

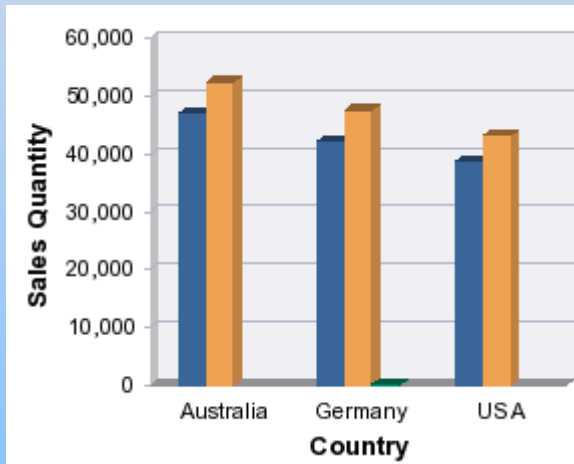
4. Forms

3. Crosstabs

	Germany
2006	42,170
2007	47,634
2008	117

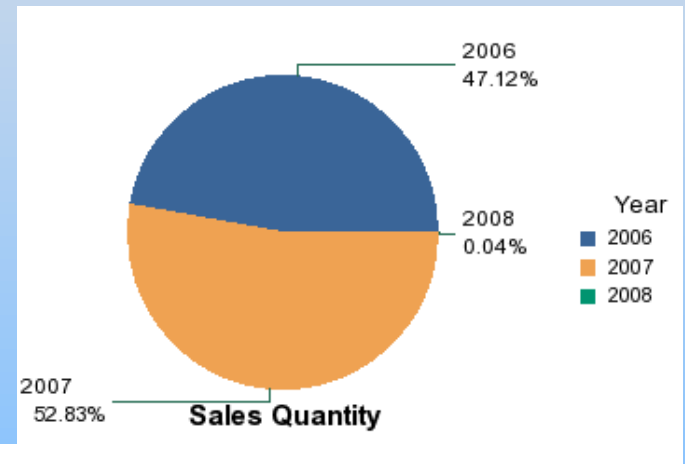
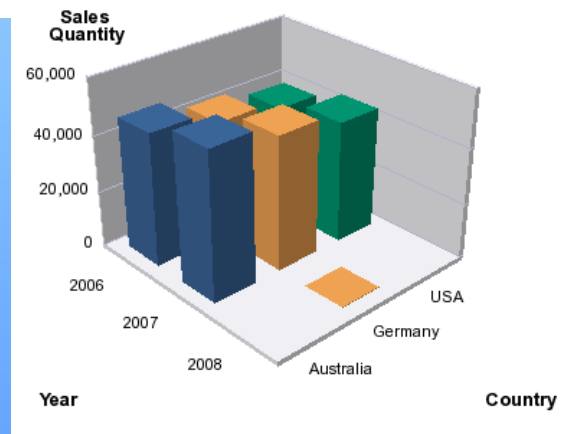
Charts

WebI provides 5 basic chart types: bar, line, area, pie and radar
Some examples are shown below...



Vertical Grouped Bar Chart

3D Bar Chart



Pie Chart

Breaks, Calculations and Sorts (1/3)

- **Breaks** allow data in tables to be broken into groups according to the data and values selected

Country	Year	Sales Quantity
Australia	2006	47,065
Australia	2007	52,443
Germany	2006	42,170
Germany	2007	47,634
Germany	2008	117
USA	2006	38,623
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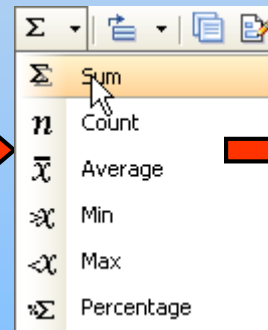


Country	Year	Sales Quantity
Australia	2006	47,065
Australia	2007	52,443
Australia		
Country	Year	Sales Quantity
Germany	2006	42,170
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Germany	2008	117
Germany		
Country	Year	Sales Quantity
USA	2006	38,623
USA	2007	43,273
USA		

Breaks, Calculations and Sorts (2/3)

- Standard calculation functions are available to make quick calculations on the data in reports

Country	Year	Sales Quantity
Australia	2006	47,065
	2007	52,443
Australia		
Country	Year	Sales Quantity
Germany	2006	42,170
	2007	47,634
	2008	117
Germany		
Country	Year	Sales Quantity
USA	2006	38,623
	2007	43,273
USA		

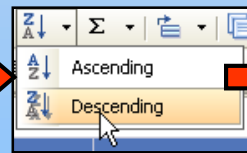


Country	Year	Sales Quantity
Australia	2006	47,065
	2007	52,443
Australia		Sum: 99,508
Country	Year	Sales Quantity
Germany	2006	42,170
	2007	47,634
	2008	117
Germany		Sum: 89,921
Country	Year	Sales Quantity
USA	2006	38,623
	2007	43,273
USA		Sum: 81,896
		Sum: 271,325

Breaks, Calculations and Sorts (3/3)

- Standard calculation functions are available to make quick calculations on the data in reports

Country	Year	Sales Quantity
Australia	2006	47,065
	2007	52,443
Australia	Sum:	99,508
Country	Year	Sales Quantity
Germany	2006	42,170
	2007	47,634
	2008	117
Germany	Sum:	89,921
Country	Year	Sales Quantity
USA	2006	38,623
	2007	43,273
USA	Sum:	81,896
	Sum:	271,325



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	2008	117
Germany	Sum:	89,921
Country	Year	Sales Quantity
USA	2007	43,273
	2006	38,623
USA	Sum:	81,896
	Sum:	271,325

Alerters

- **Alerters** allow you to highlight results that meet or fail specific business targets.

Country	Sales Organisation Name	Sales Revenue
Australia	Brisbane Bikes- and Motoshop	59,347,637.72
Australia	Melbourne Bikes- and Motoshop	46,941,771.23
Australia	Sidney Moto- and Bike Store	41,396,502.88
Germany	Bikes and Motorbikes Studio Magdeburg	19,739,417.56
Germany	Bikes and Motrocyles Studio Berlin	24,624,863.54
Germany	Munch Moto- and Bike Store	29,667,314.53
USA	Illionis Bikes and Motocycles	30,451,450.53
USA	Oklahoma Bikes- and Motoshop	23,145,056.78
USA	San Francisco Bike- and Motoshop	41,706,445.63

Country	Sales Organisation Name	Sales Revenue
Australia	Brisbane Bikes- and Motoshop	59,347,637.72
Australia	Melbourne Bikes- and Motoshop	46,941,771.23
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USA	Illionis Bikes and Motocycles	30,451,450.53
USA	Oklahoma Bikes- and Motoshop	23,145,056.78
USA	San Francisco Bike- and Motoshop	41,706,445.63



Alert Editor

Alert name: Good Sales Revenue
Description:

Sub-Alerter

Filtered object or cell: true (Local Currency) | Operator: Greater than | Operand(s): 40000000

If the above is true, then display: Cell contents | Format ...

Add Sub-Alerter | Remove Sub-Alerter | Formula

OK | Cancel | Help



Sectioning (1/2)

- Breaks allow grouping of data in a block
- **Sectioning** can also be used to group data
- A break only groups within a block, whereas sectioning groups the entire report
- Advantages of this include...
 - You can have multiple blocks projected from the same microcube within a single report, all sub-grouped to the sectioned level
 - You can insert subtotal cells, repeated in each section, which are created by drag and drop

Sectioning (2/2)

Country	Year	Sales Quantity
Australia	2006	47,065
Australia	2007	52,443
Germany	2006	42,170
Germany	2007	47,634
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Germany	2008	117
USA	2006	38,623
USA	2007	43,273

- Set as Section
- Insert
- Copy as text
- Clear Cell Contents
- Remove
- Remove Row
- Remove Column



Australia 99,508

Year	Sales Quantity
2006	47,065
2007	52,443

Germany 89,921

Year	Sales Quantity
2006	42,170
2007	47,634
2008	117



Australia

Year	Sales Quantity
2006	47,065
2007	52,443

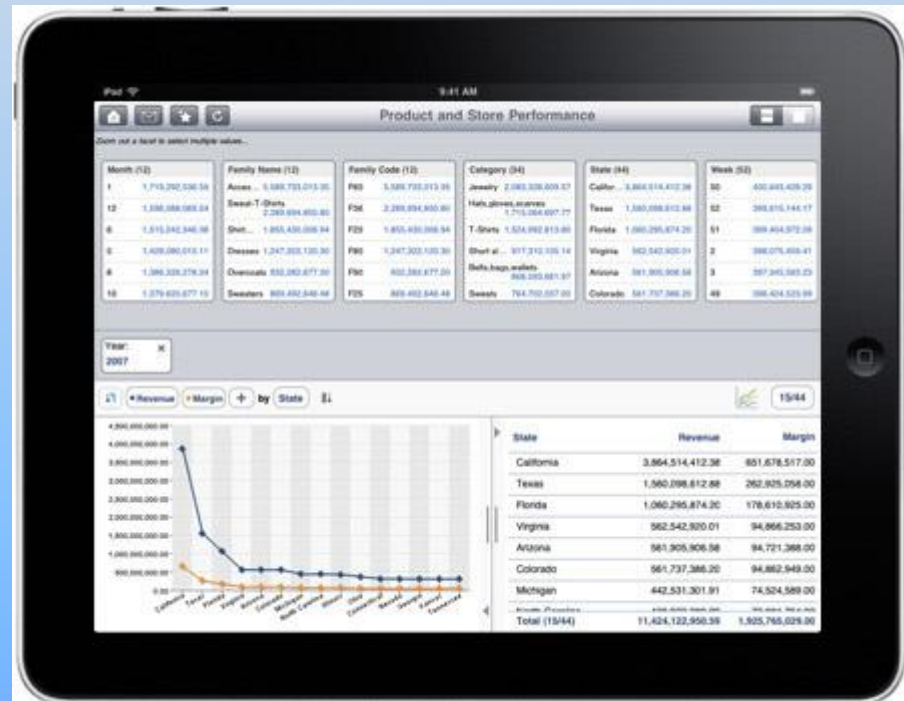
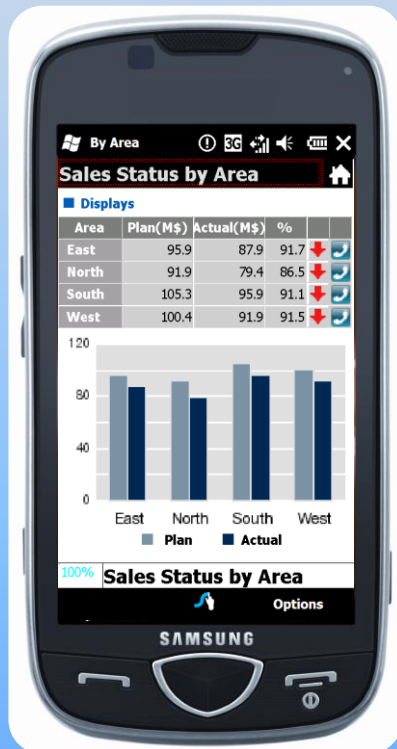
Germany

Year	Sales Quantity
2006	42,170
2007	47,634
2008	117

USA

SAP BusinessObjects Mobile BI

Run smarter anywhere



Opdrachten

- **Dictaat Sap Business Object Webi**
 - Hoofdstuk 1 t/m 7 query
 - Hoofdstuk 9 analyse
- **Opdrachten**
 - Hoofdstuk 1 t/m 7

Vragen?