# Oracle Business Intelligence Products Roadmap

**Ljiljana Perica,** Oracle Business Solution Team Leader

# Oracle is the Worldwide Leader in Business Analytics

| | |
|---|---|
| **Oracle BI Applications** | ***#1 in Analytic Applications - IDC*** |
| **Oracle BI Suite** | ***"One of the most comprehensive and innovative BI platforms…" - Gartner*** |
| **Oracle Data Warehousing** | ***#1 in DW Tools - IDC*** |

Sources: IDC and Gartner

# Oracle BI Product Suites

Range of BI suits for different needs

## Oracle Business Intelligence SE-1

- ETL
- Oracle SE Database
- Access other DB & files

- BI Dashboards
- Enterprise Reporting
- Ad-hoc Reporting

*BI Pack for SMEs*
*50 Users Max*

## Oracle Business Intelligence SE

- Ad-hoc Reporting & Analysis inc. interactive OLAP
- BI Dashboards
- Enterprise Reporting
- Desktop Integration
- BI Development

*Low cost*
*Solution Optimised*
*for Oracle database environments*
*& Power users*

## Oracle Business Intelligence EE Plus

- Heterogeneous BI Server

- Ad-hoc Reporting & Analysis
- BI Dashboards
- Enterprise Reporting
- Desktop Integration
- BI Alerting
- Disconnected user BI
- Hyperion Products

*High-end Solution,*
*Optimised for heterogeneous environments*
*& Enterprise Wide Deployments*

# Oracle BI EE Plus - Centerpiece of BI Foundation

**Advantages:**

- ✓ Consolidated and standard-based
- ✓ Seamless user experience across products
- ✓ Unified metadata and shared services

**Advantages:**

- ✓ Delivers pervasive fact-based insight across multiple sources
- ✓ Scales to over 1 million users
- ✓ Hot-Pluggable, to work with any customer environment
- ✓ Integrated with EPM System and Oracle Apps
- ✓ Adopted by all Apps Unlimited, GBU, and Fusion product families

**Interactive Dashboards**

**Ad hoc Analysis**

**Proactive Detection and Alerts**

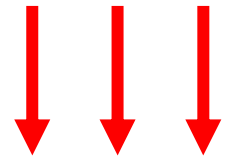
**Microsoft Office**

**Reporting & Publishing**

- BI Publisher
- Financial Reporting
- Interactive Reporting
- SQR Production Reporting
- Web Analysis

**Common Enterprise Information Model**

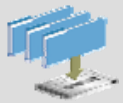
**Oracle BI Server**



**OLTP & ODS Systems**

**Data Warehouse Data Mart**

**SAP, Oracle PeopleSoft, Siebel, Custom Apps**



**Files Excel XML**

**Business Process**

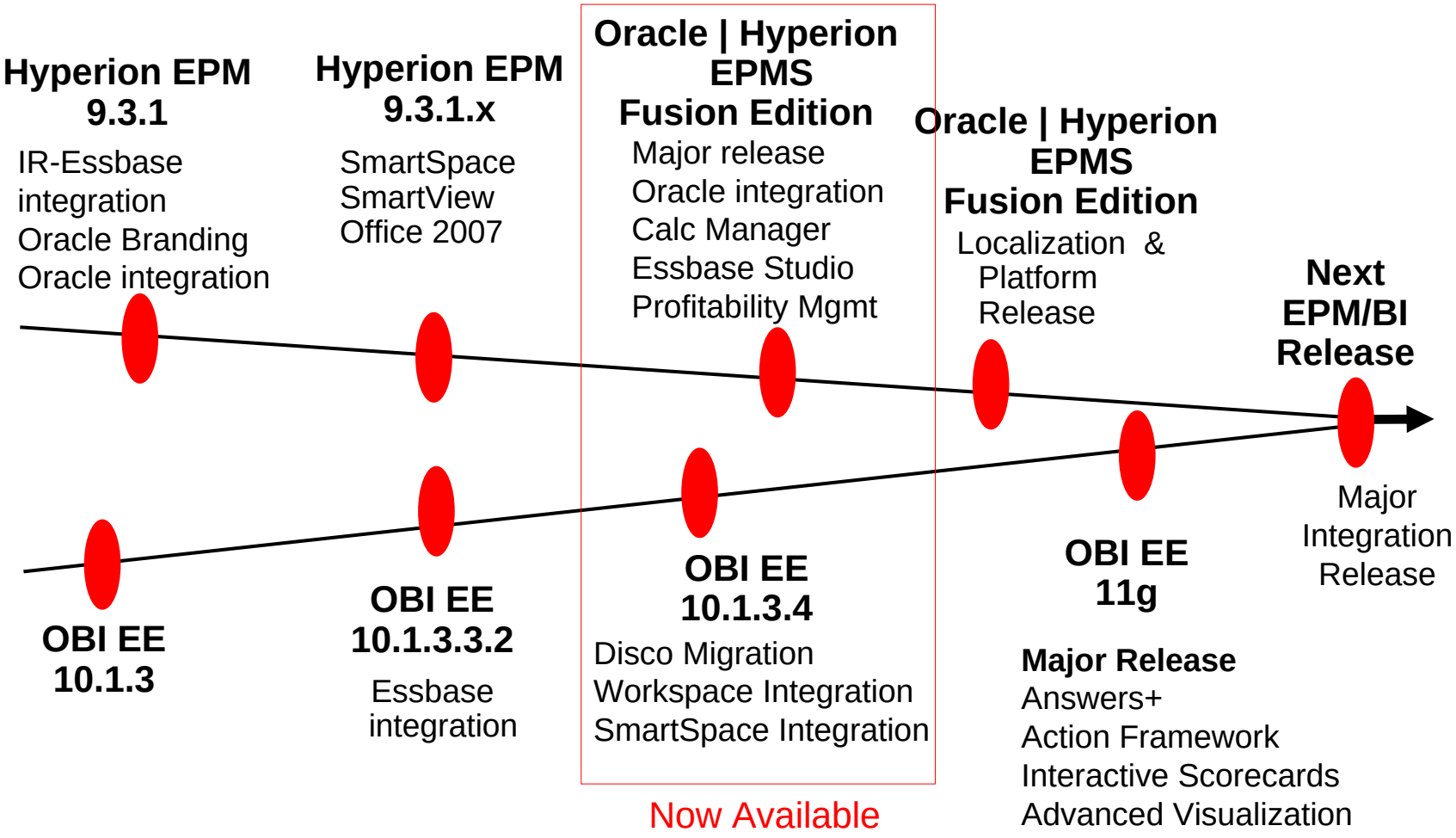
**Financial Performance Management Applications**

**Hyperion Essbase**

# Roadmap Drivers

- Provide industry's first integrated EPM System
- Enable pervasive information access
- Innovate in all areas
- Remain standards-based and Hot Pluggable
- Evolve to unified BI Foundation
- Protect, extend, evolve customers' existing investments

# OBI + Hyperion Integration Releases

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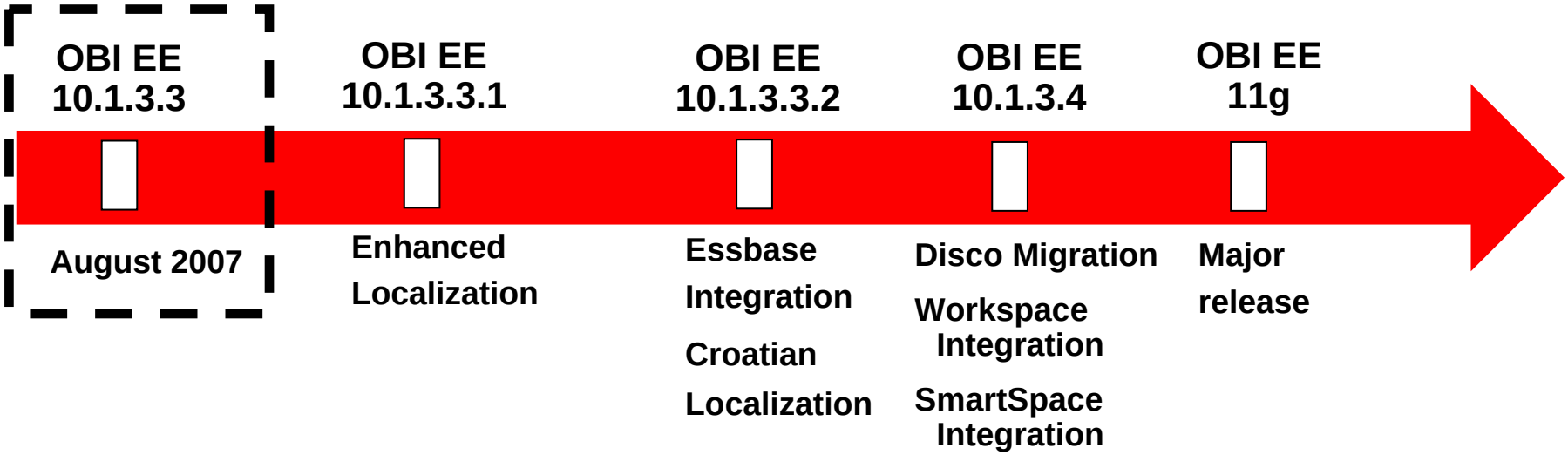
# Oracle BI EE Plus Releases

## Align, Integrate, Evolve

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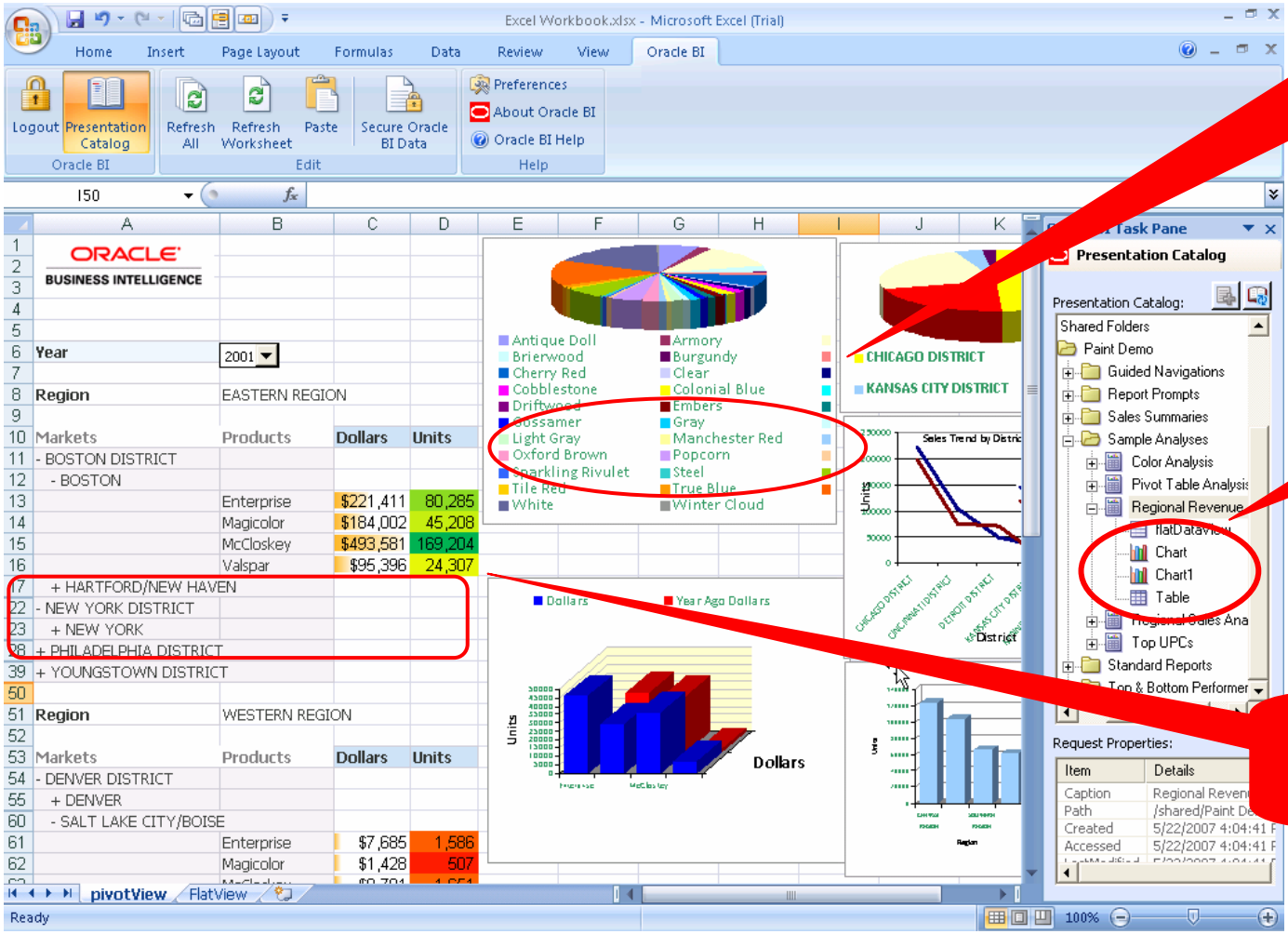
# OBIEE 10.1.3.3

## Product Update

- **Extended Office Add-ins**
  - Pervasive Office Integration
- **Dashboards and Reports**
  - Multi-select Search
  - Metadata Dictionary Integration
  - BI Publisher Flex/Flash Templates
  - BI Publisher – Discoverer Integration
- **Metadata Administration**
  - XMLA Driven Business Models
  - Pass through DB Functions
- **Data Source Integration**
  - Neteeza Certification

# OBIEE 10.1.3.3 – Office Enhancements

## Build Your Own Dashboards



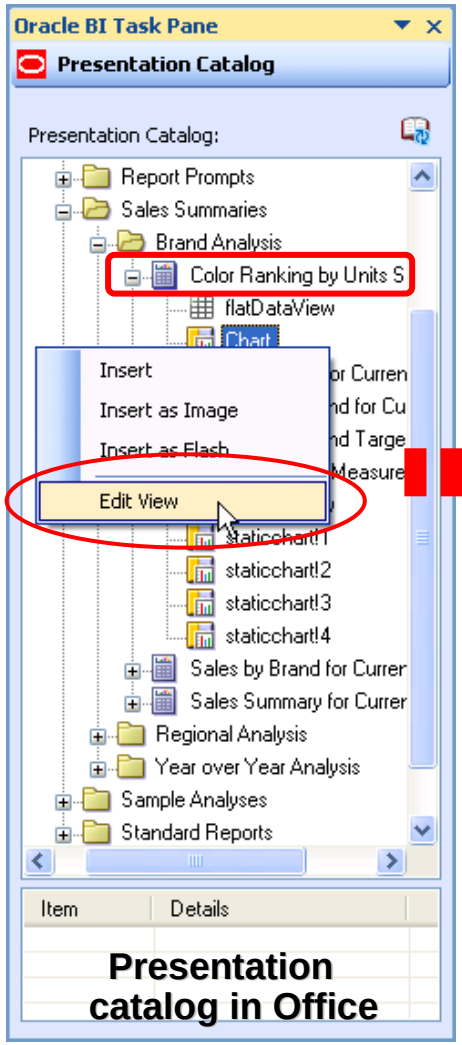

Insert BI views as native Office charts, refreshable images or Flash objects

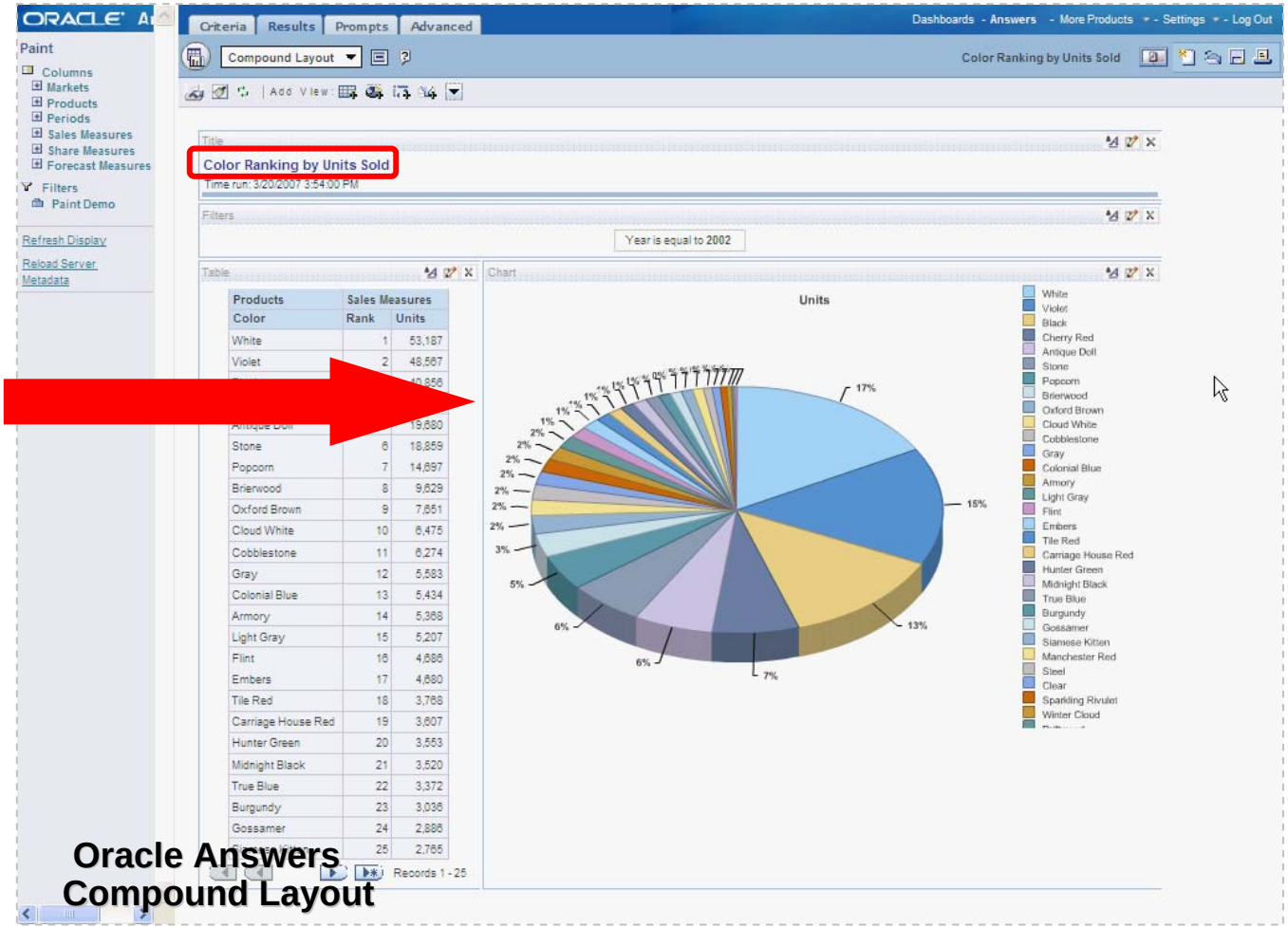
Select from all available views

Combine BI data with Office formatting

# OBI EE 10.1.3.3 - Link to Answers

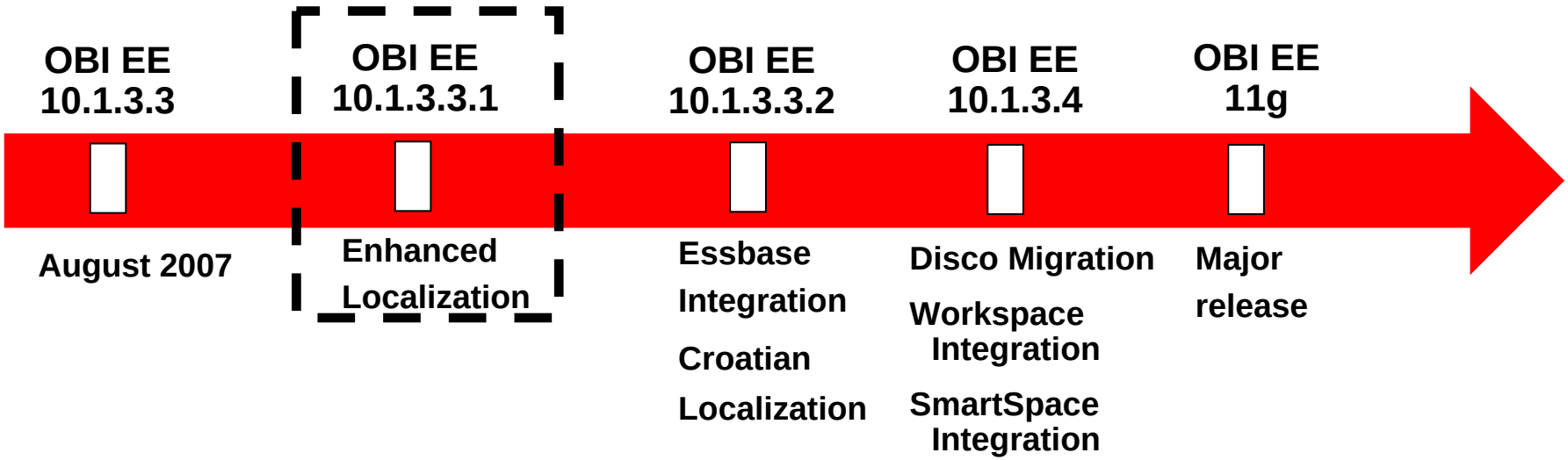
## Single-click Access to Complete BI Functionality



# Oracle BI EE Plus Releases

## Align, Integrate, Evolve

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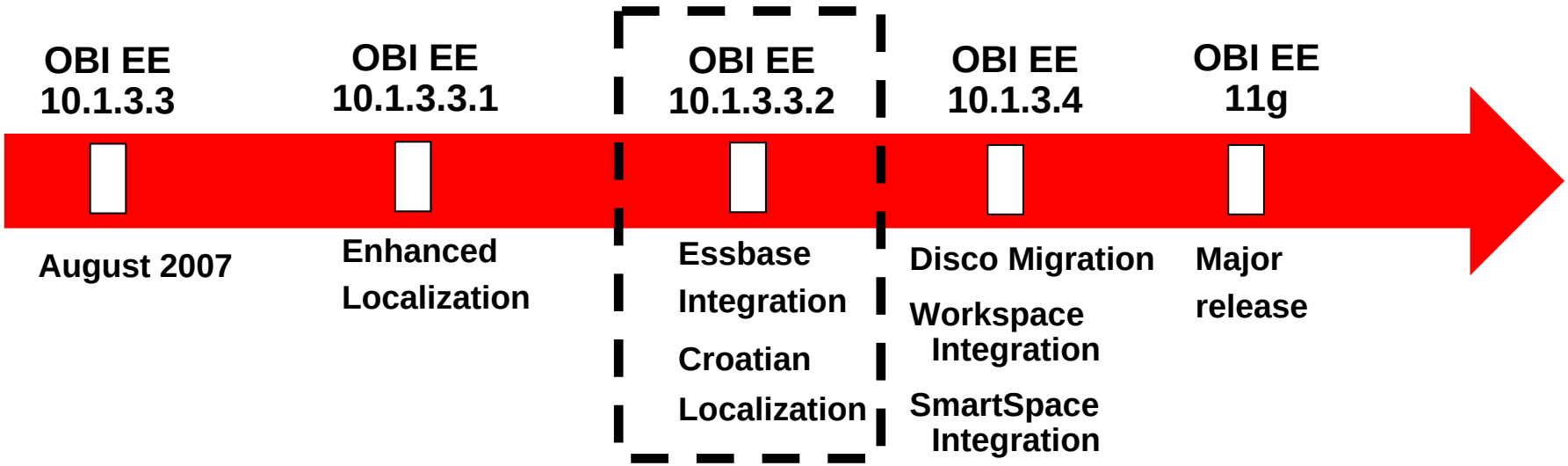
# Oracle BI EE Plus Releases

## Align, Integrate, Evolve

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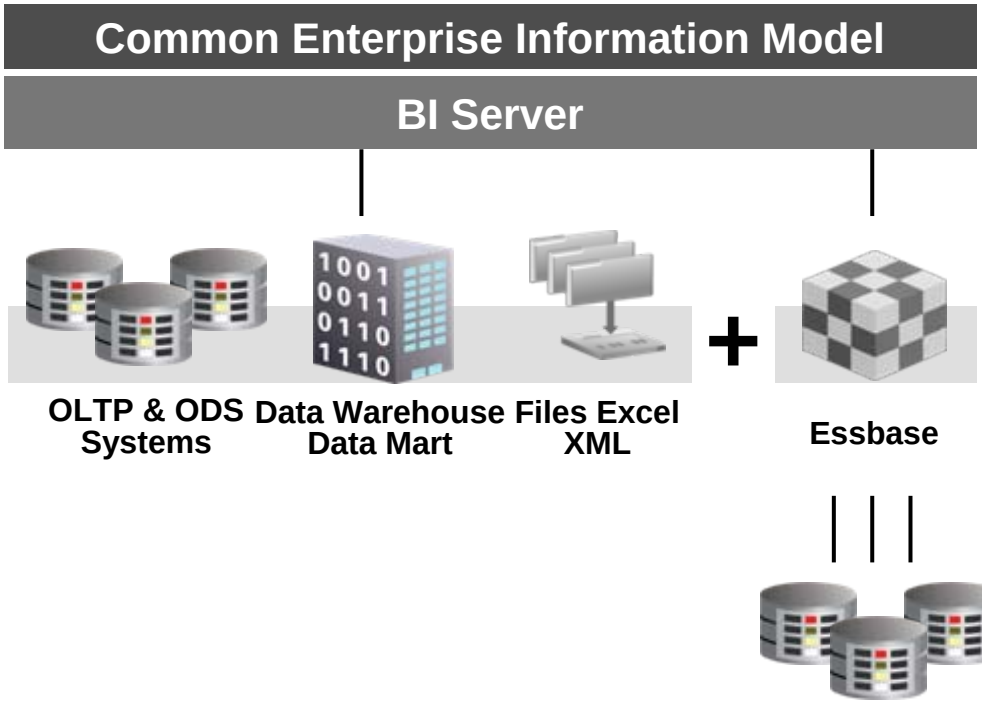
# Essbase as source to OBIEE

## Available now in OBIEE 10.1.3.3.2




For OBI Customer

- Access all data managed by Essbase
- Essbase data can participate in Common Enterprise Information Model

For Essbase Customer

- Essbase data and calculations made available to OBIEE users

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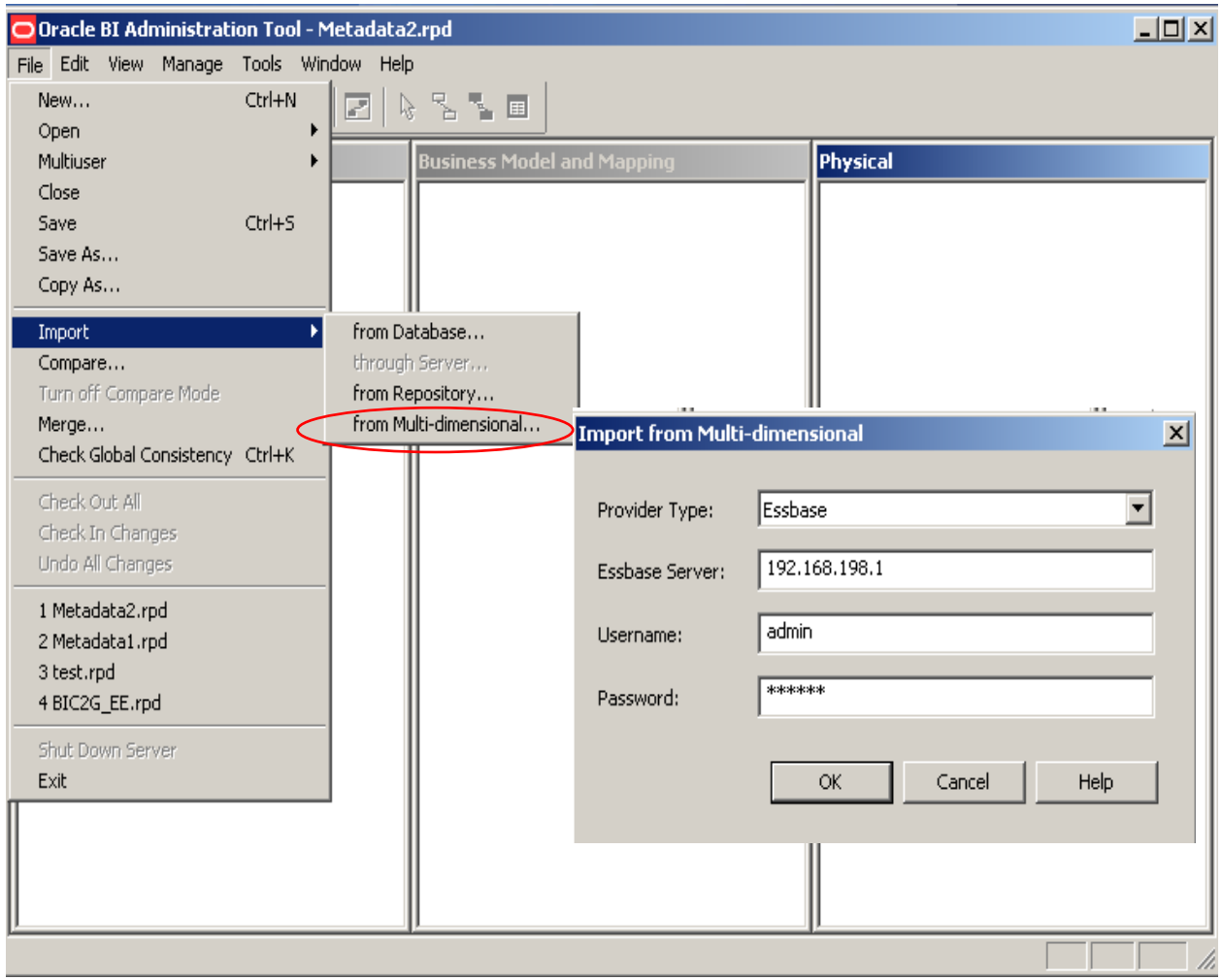
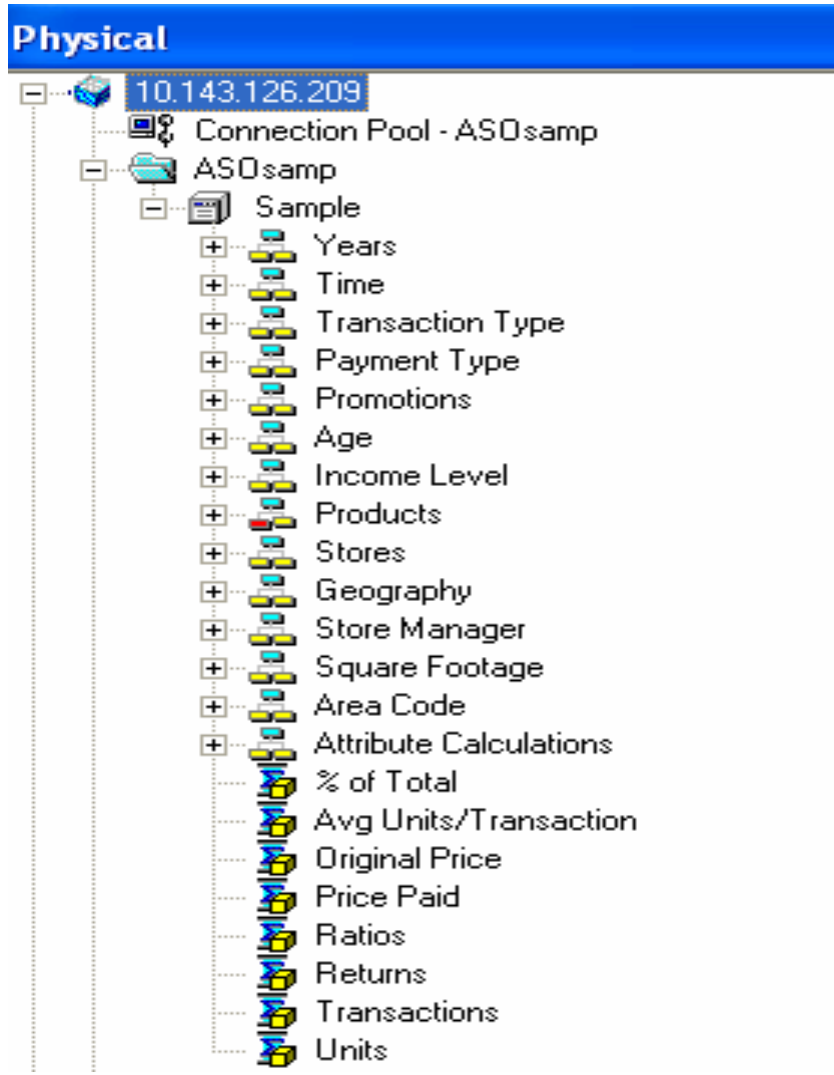
# BI Server Admin Tool – Essbase Import

- New Admin tool import dialog for multi-dimensional sources in 10.1.3.3.2
- Essbase metadata import (and queries) require installation of Essbase client API on BI Server



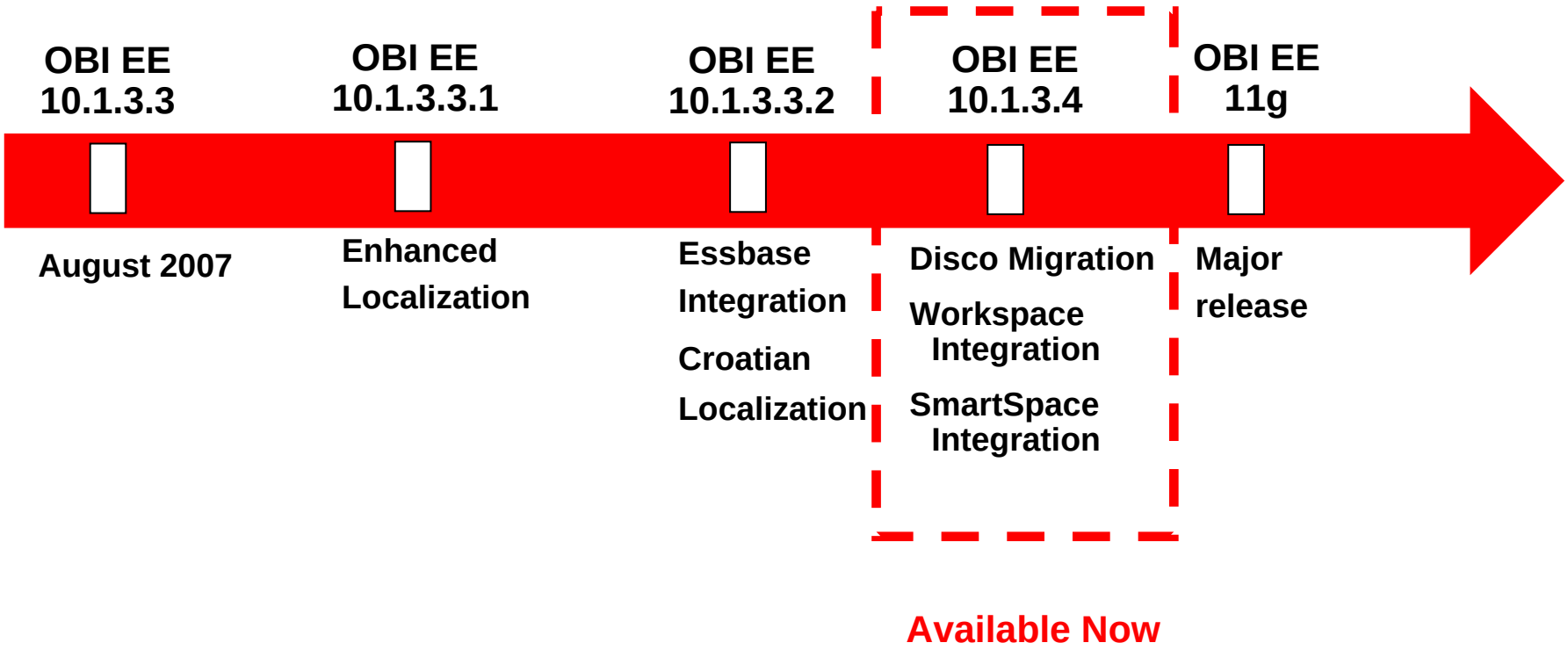
# BI Server Metadata for Essbase

- Multidimensional sources are uniquely modeled in the BI Server metadata
- For Essbase, in the physical repository layer:
  - Physical database corresponds to an Essbase Server instance
  - Physical display folder corresponds to an Essbase Application
  - Physical cube corresponds to an Essbase cube
- A Business Model is created simply by dragging and dropping a cube onto the Business Model layer.
  - Metadata is implied by the cube structure



# Oracle BI EE Plus Releases

## Align, Integrate, Evolve

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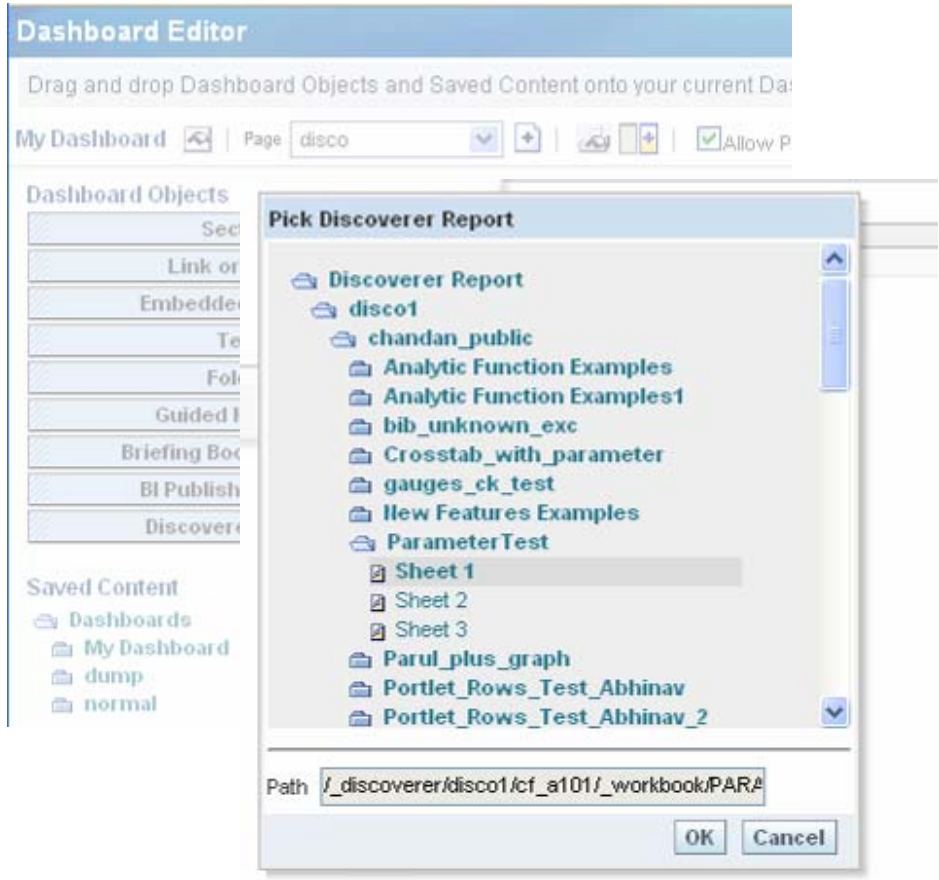
# Discoverer – Protect, Interoperate, Migrate

## Discoverer BI EE migration utility in 10.1.3.4

- Protect
  - Lifetime Support
- Interoperate
  - BI Publisher integration Today
  - BI Dashboards and Delivers Integration in 11g
- Migrate
  - EUL Migration Utility 10.1.3.4

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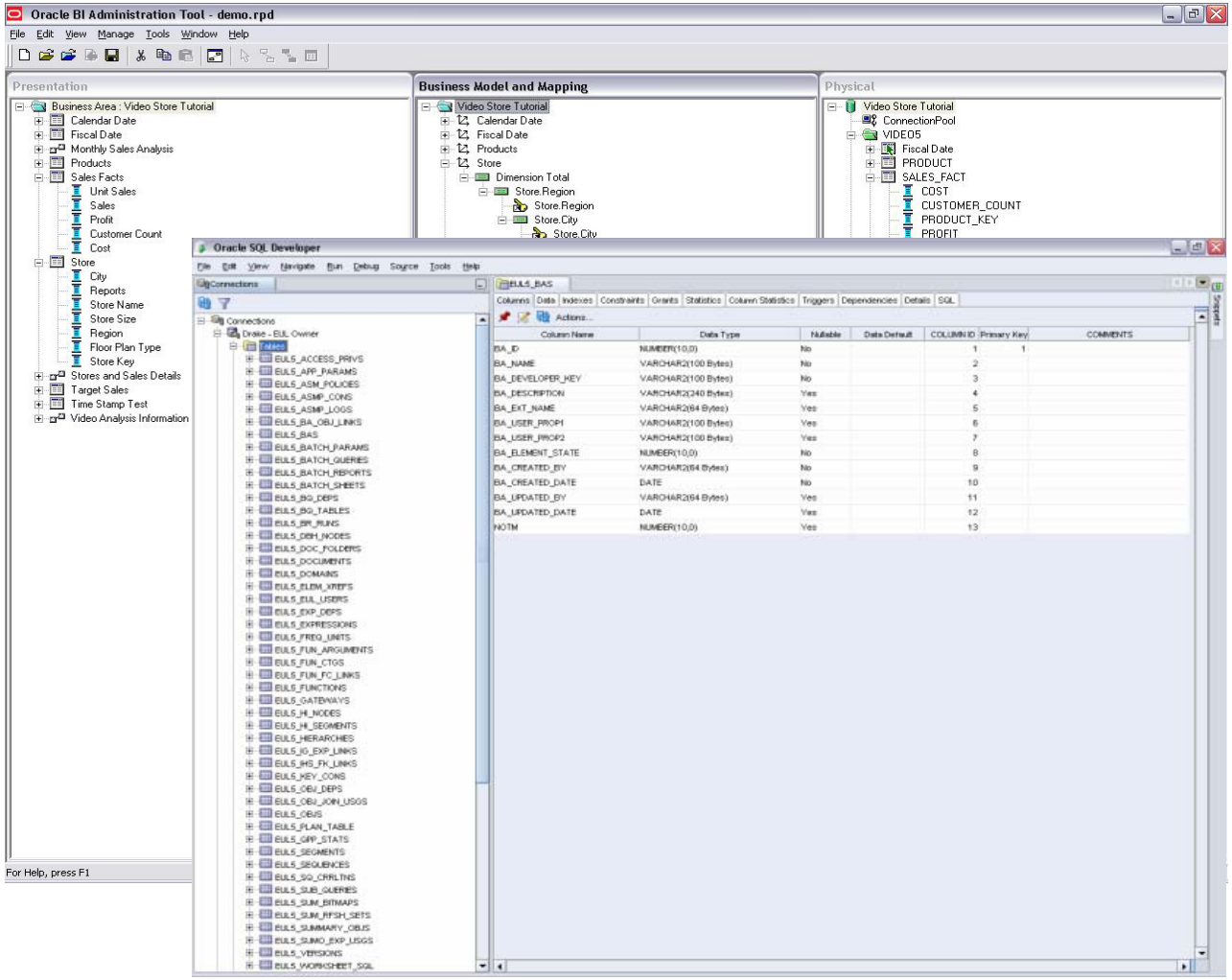
# Oracle Discoverer Migration Utility

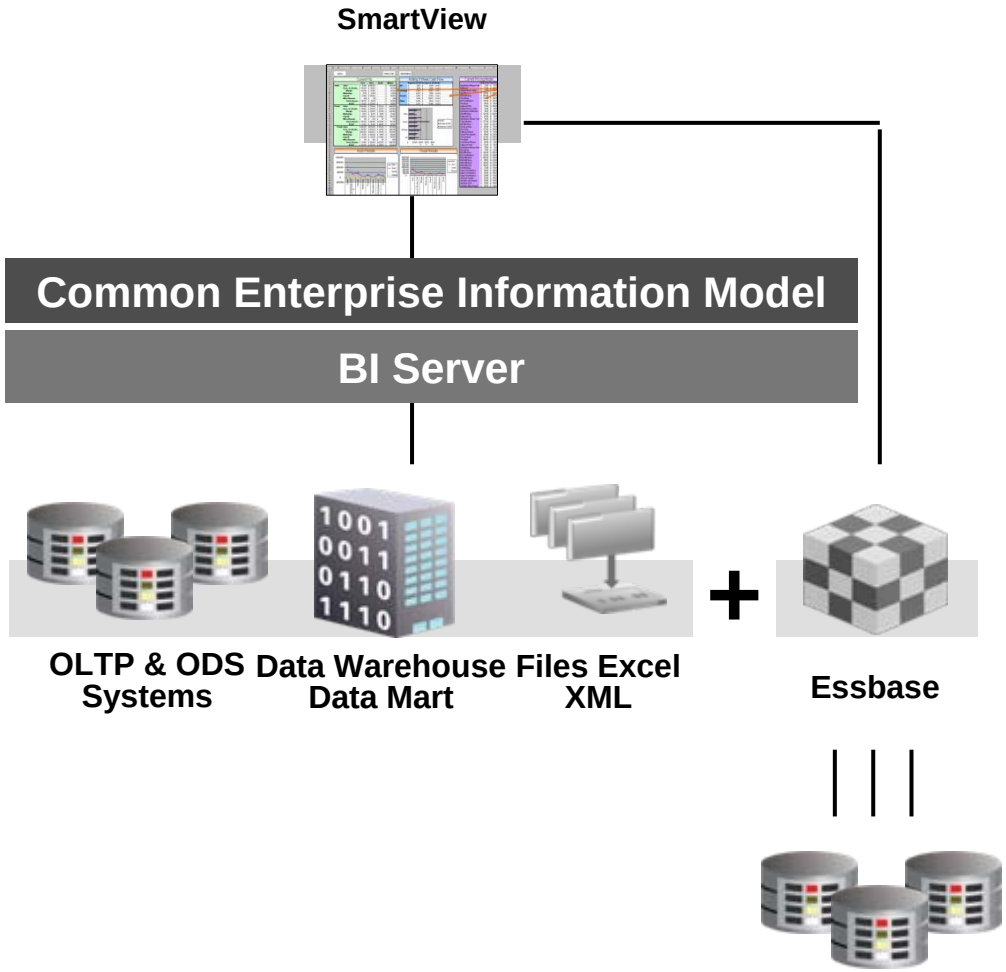
## Migrate Discoverer metadata to BI EE




- QuickStart RPD Generation from EUL
- Targeted for regular star/snowflakes
- Supported with methodology and best practices

# SmartView for Essbase and OBIEE

## Available with EPMS Fusion edition




For SmartView User

- Natively access Essbase and OBIEE data in single UI

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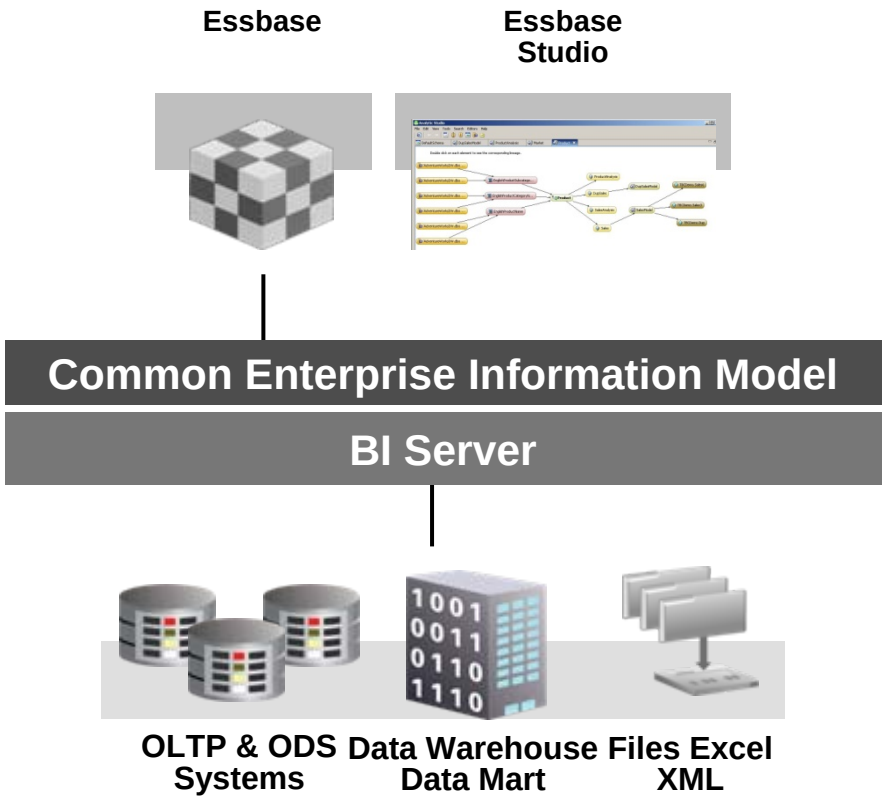
# OBIEE as Source to Essbase

## Available now (Essbase Studio in EPMS Fusion Edition)



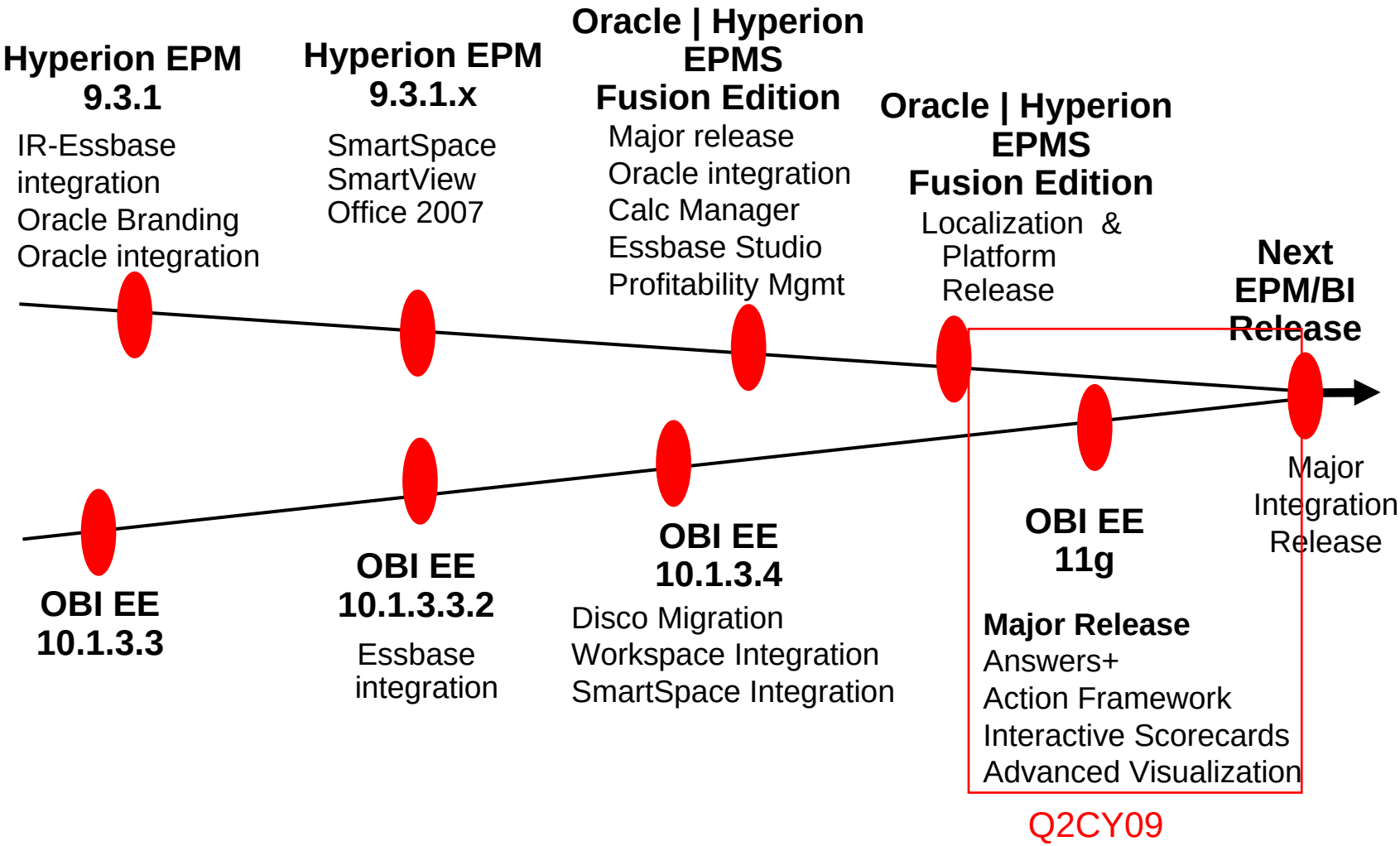

For Essbase Customer

- Essbase can access all sources mapped into Common Enterprise Information Model
- Essbase drill through to the OBIEE-mapped data
- Essbase Studio can map OBIEE data for Essbase use
- Essbase can use OBI Apps as a data source

For OBI Customer

- Essbase what-if can be applied to OBIEE-mapped data

# OBI + Hyperion Integration Releases

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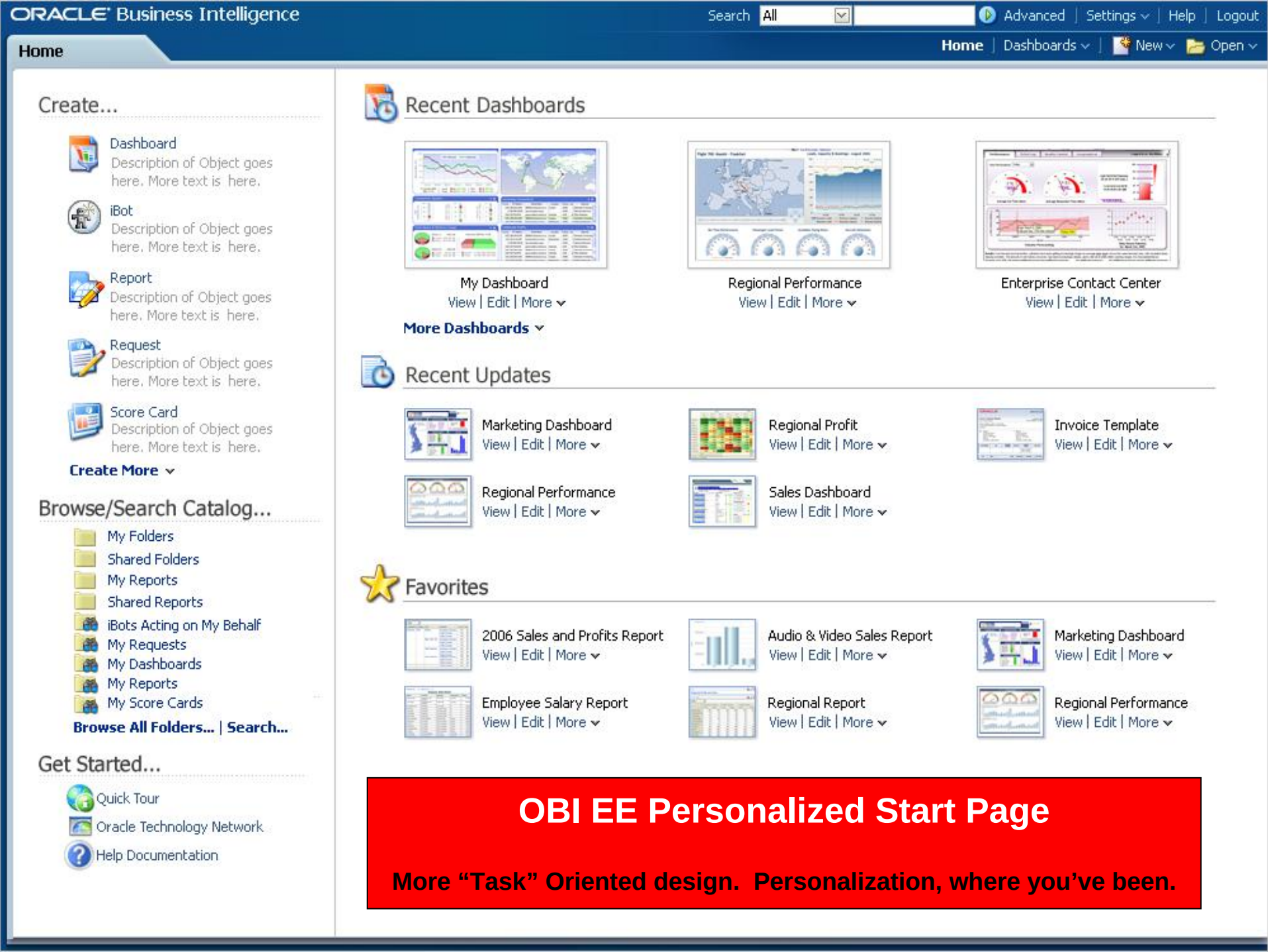
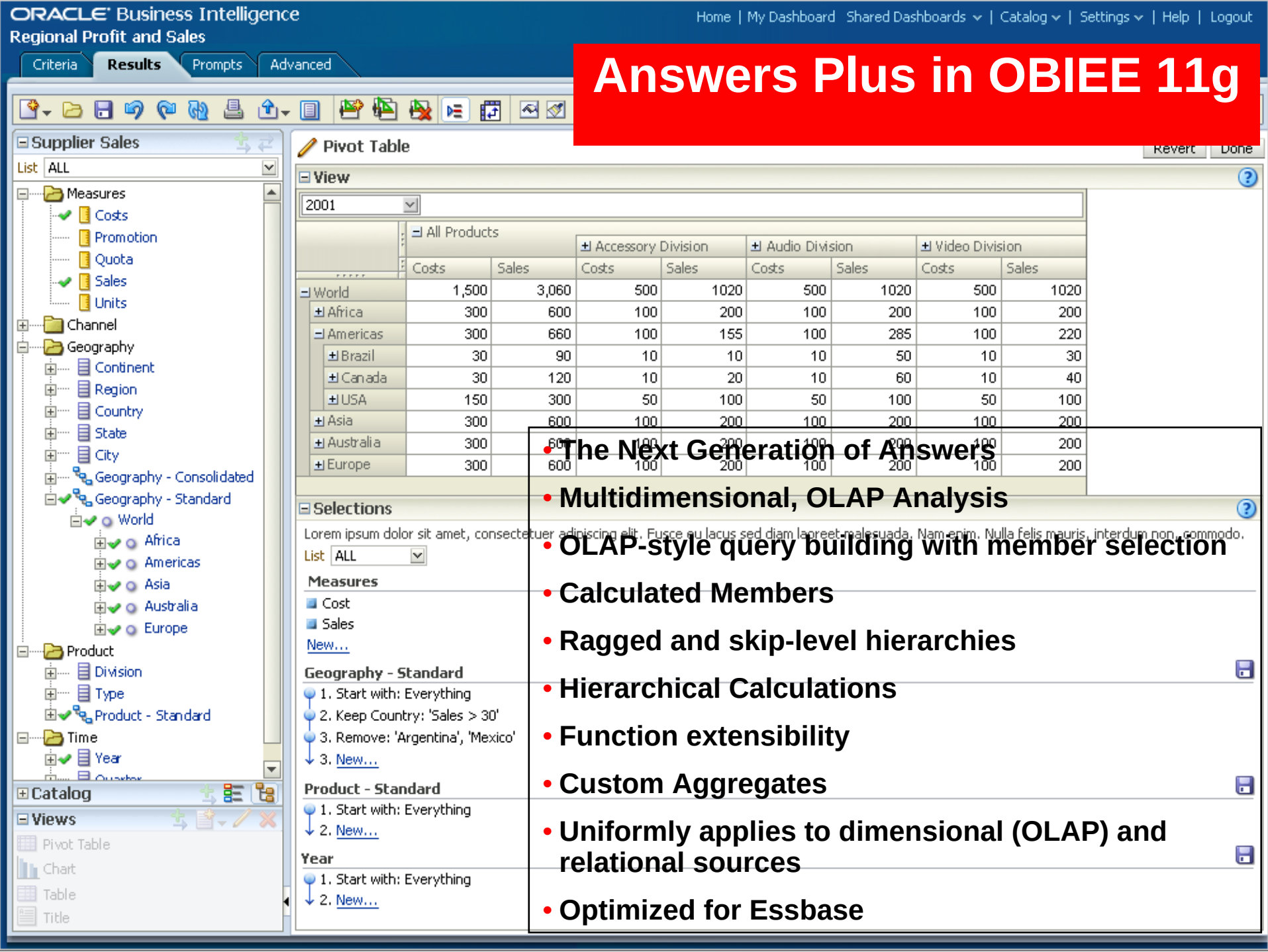

ORACLE Business Intelligence
Search All
Advanced | Settings | Help | Logout
Home
Home | Dashboards | New | Open
Create...
Dashboard
Description of Object goes here. More text is here.
iBot
Description of Object goes here. More text is here.
Report
Description of Object goes here. More text is here.
Request
Description of Object goes here. More text is here.
Score Card
Description of Object goes here. More text is here.
Create More
Browse/Search Catalog...
My Folders
Shared Folders
My Reports
Shared Reports
iBots Acting on My Behalf
My Requests
My Dashboards
My Reports
My Score Cards
Browse All Folders... | Search...
Get Started...
Quick Tour
Oracle Technology Network
Help Documentation
Recent Dashboards
My Dashboard
View | Edit | More
Regional Performance
View | Edit | More
Enterprise Contact Center
View | Edit | More
More Dashboards
Recent Updates
Marketing Dashboard
View | Edit | More
Regional Profit
View | Edit | More
Invoice Template
View | Edit | More
Regional Performance
View | Edit | More
Sales Dashboard
View | Edit | More
Favorites
2006 Sales and Profits Report
View | Edit | More
Audio & Video Sales Report
View | Edit | More
Marketing Dashboard
View | Edit | More
Employee Salary Report
View | Edit | More
Regional Report
View | Edit | More
Regional Performance
View | Edit | More
OBI EE Personalized Start Page
More “Task” Oriented design. Personalization, where you’ve been.

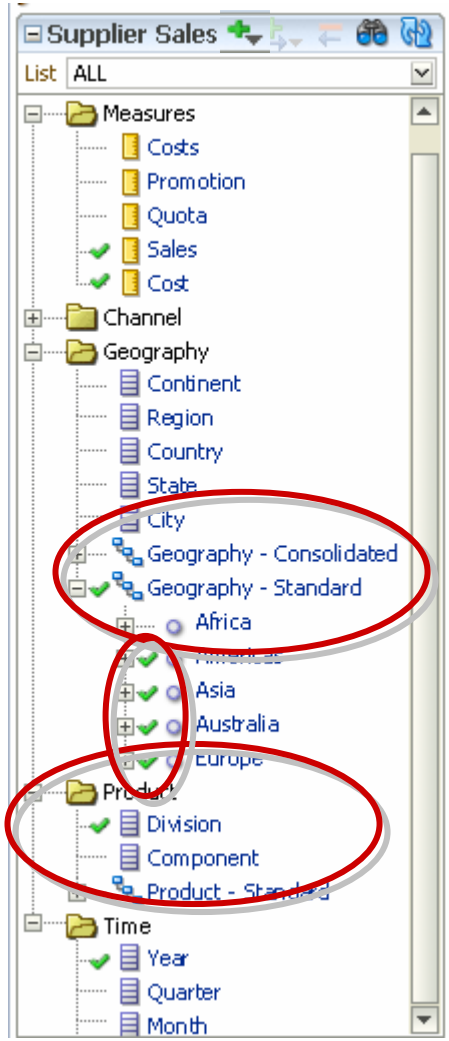

ORACLE Business Intelligence
Regional Profit and Sales
Home | My Dashboard | Shared Dashboards | Catalog | Settings | Help | Logout
Criteria
Results
Prompts
Advanced
Answers Plus in OBIEE 11g
Supplier Sales
List ALL
Measures
Costs
Promotion
Quota
Sales
Units
Channel
Geography
Continent
Region
Country
State
City
Geography - Consolidated
Geography - Standard
World
Africa
Americas
Asia
Australia
Europe
Product
Division
Type
Product - Standard
Time
Year
Catalog
Views
Pivot Table
Chart
Table
Title
Pivot Table
Revert
Done
View
2001
All Products
Accessory Division
Audio Division
Video Division
Costs
Sales
World 1,500 3,060 500 1020 500 1020 500 1020
Africa 300 600 100 200 100 200 100 200
Americas 300 660 100 155 100 285 100 220
Brazil 30 90 10 10 10 50 10 30
Canada 30 120 10 20 10 60 10 40
USA 150 300 50 100 50 100 50 100
Asia 300 600 100 200 100 200 100 200
Australia 300 600 100 200 100 200 100 200
Europe 300 600 100 200 100 200 100 200
Selections
Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Fusce eu lacus sed diam laoreet malesuada. Nam enim. Nulla felis mauris, interdum non, commodo.
List ALL
Measures
Cost
Sales
New...
Geography - Standard
1. Start with: Everything
2. Keep Country: 'Sales > 30'
3. Remove: 'Argentina', 'Mexico'
3. New...
Product - Standard
1. Start with: Everything
2. New...
Year
1. Start with: Everything
2. New...
• The Next Generation of Answers
• Multidimensional, OLAP Analysis
• OLAP-style query building with member selection
• Calculated Members
• Ragged and skip-level hierarchies
• Hierarchical Calculations
• Function extensibility
• Custom Aggregates
• Uniformly applies to dimensional (OLAP) and relational sources
• Optimized for Essbase

# Answers+ Key Features

- Hierarchy / Member Browsing
- Dimensional Columns in Pivot Tables
- Outline Total Drilling
- Member Selection (Query Steps)
- Calculated Items
- Custom Groups
- Modular Workspace

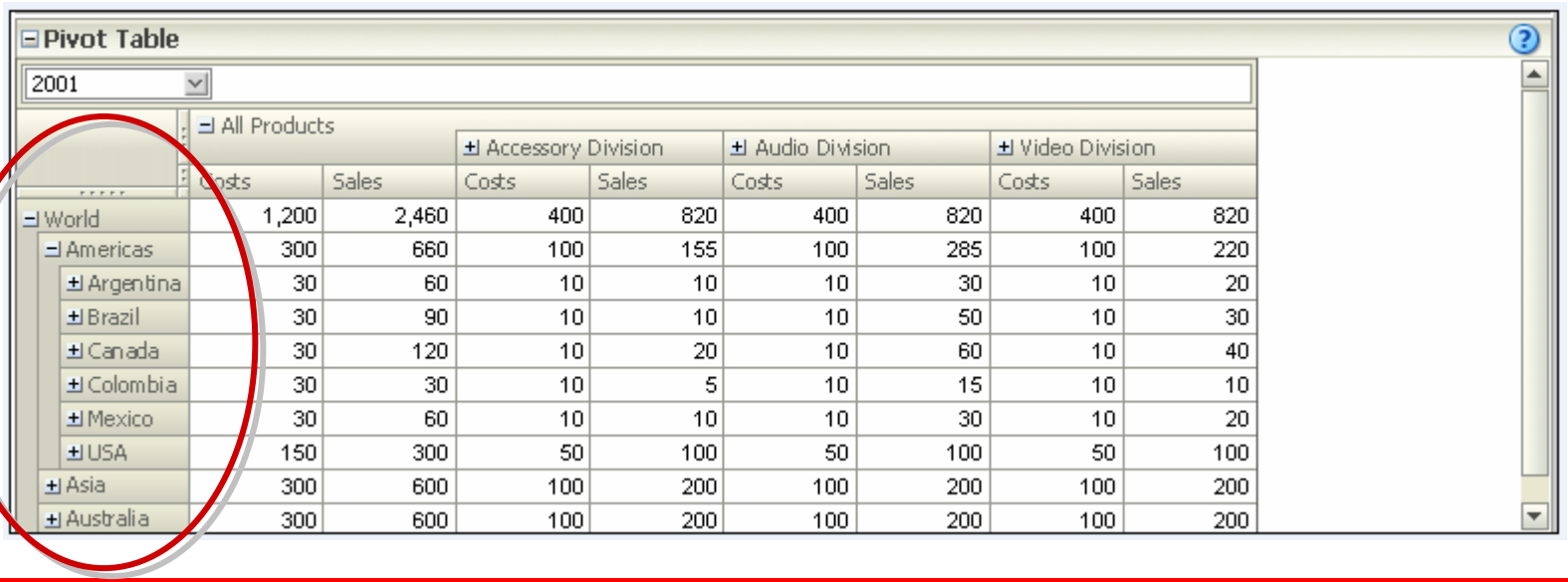
# Hierarchy/Member Browsing

- Hierarchies defined in metadata exposed in presentation layer and thus, in Subject Areas
- Multiple hierarchies available per dimension
- Requests can contain both columnar and hierarchical data
- Indication of which measures and members are included in the request



# Dimensional Columns

- New column type with unique capabilities
- Achieved by dragging and dropping hierarchy from Subject Area tree on to workspace
- Single column with expansion capabilities
- Asymmetrical Drilling
- “Drill Up”



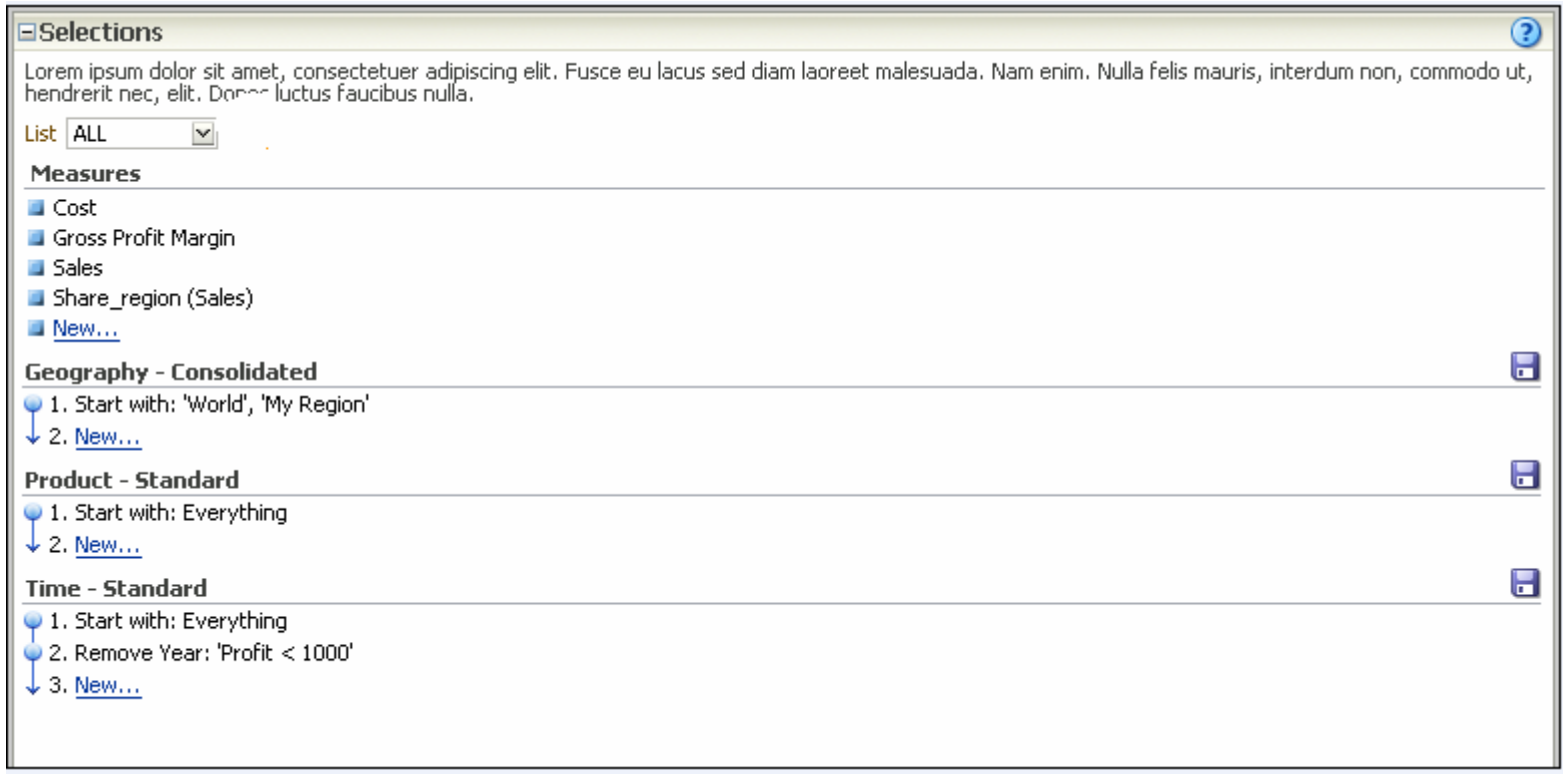
Pivot Table

2001

| | All Products | | Accessory Division | | Audio Division | | Video Division | |
|---|---|---|---|---|---|---|---|---|
| | Costs | Sales | Costs | Sales | Costs | Sales | Costs | Sales |
| World | 1,200 | 2,460 | 400 | 820 | 400 | 820 | 400 | 820 |
| Americas | 300 | 660 | 100 | 155 | 100 | 285 | 100 | 220 |
| Argentina | 30 | 60 | 10 | 10 | 10 | 30 | 10 | 20 |
| Brazil | 30 | 90 | 10 | 10 | 10 | 50 | 10 | 30 |
| Canada | 30 | 120 | 10 | 20 | 10 | 60 | 10 | 40 |
| Colombia | 30 | 30 | 10 | 5 | 10 | 15 | 10 | 10 |
| Mexico | 30 | 60 | 10 | 10 | 10 | 30 | 10 | 20 |
| USA | 150 | 300 | 50 | 100 | 50 | 100 | 50 | 100 |
| Asia | 300 | 600 | 100 | 200 | 100 | 200 | 100 | 200 |
| Australia | 300 | 600 | 100 | 200 | 100 | 200 | 100 | 200 |

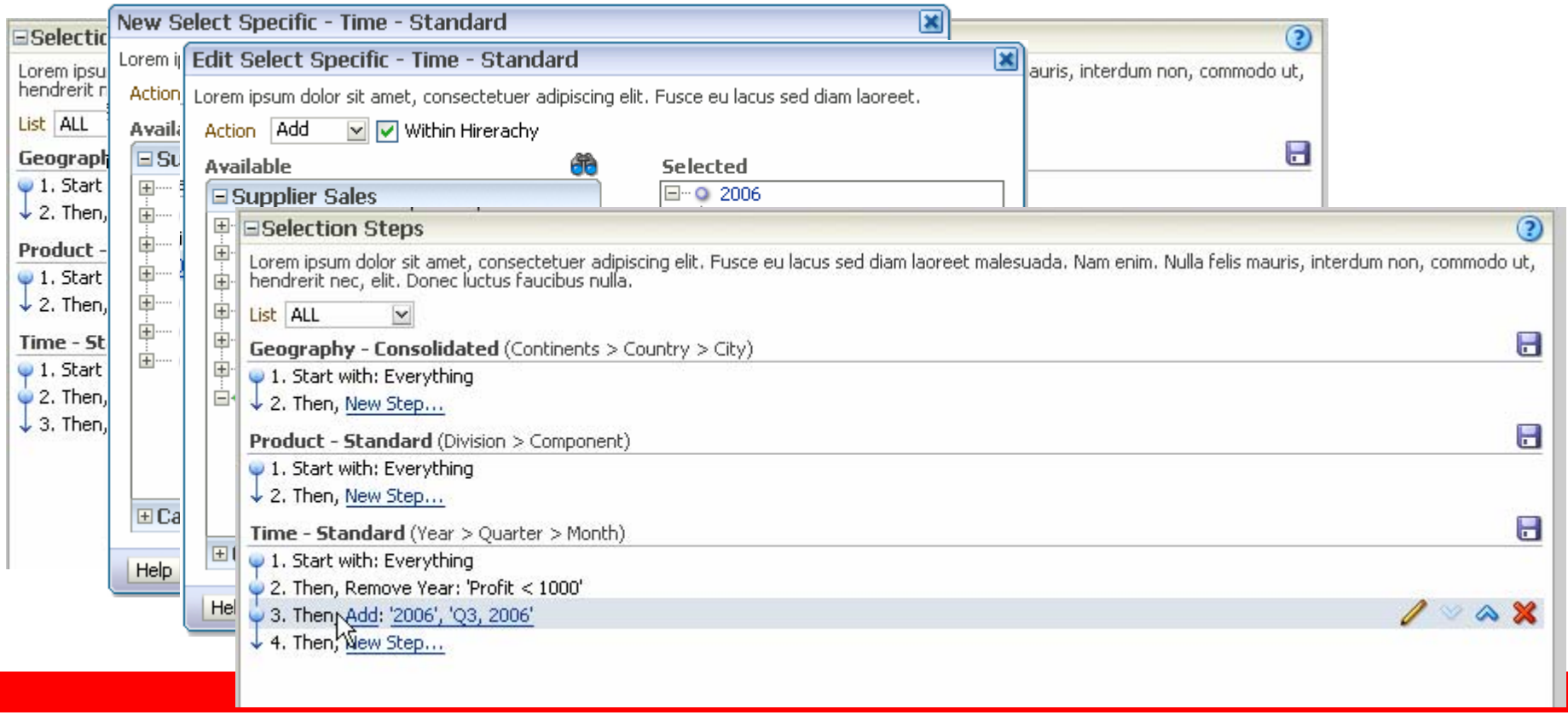
# Member Selection

- Similar to Discoverer for OLAP Query Steps
- Allows specific selection of members for display on the request
- Does not impact Total member value



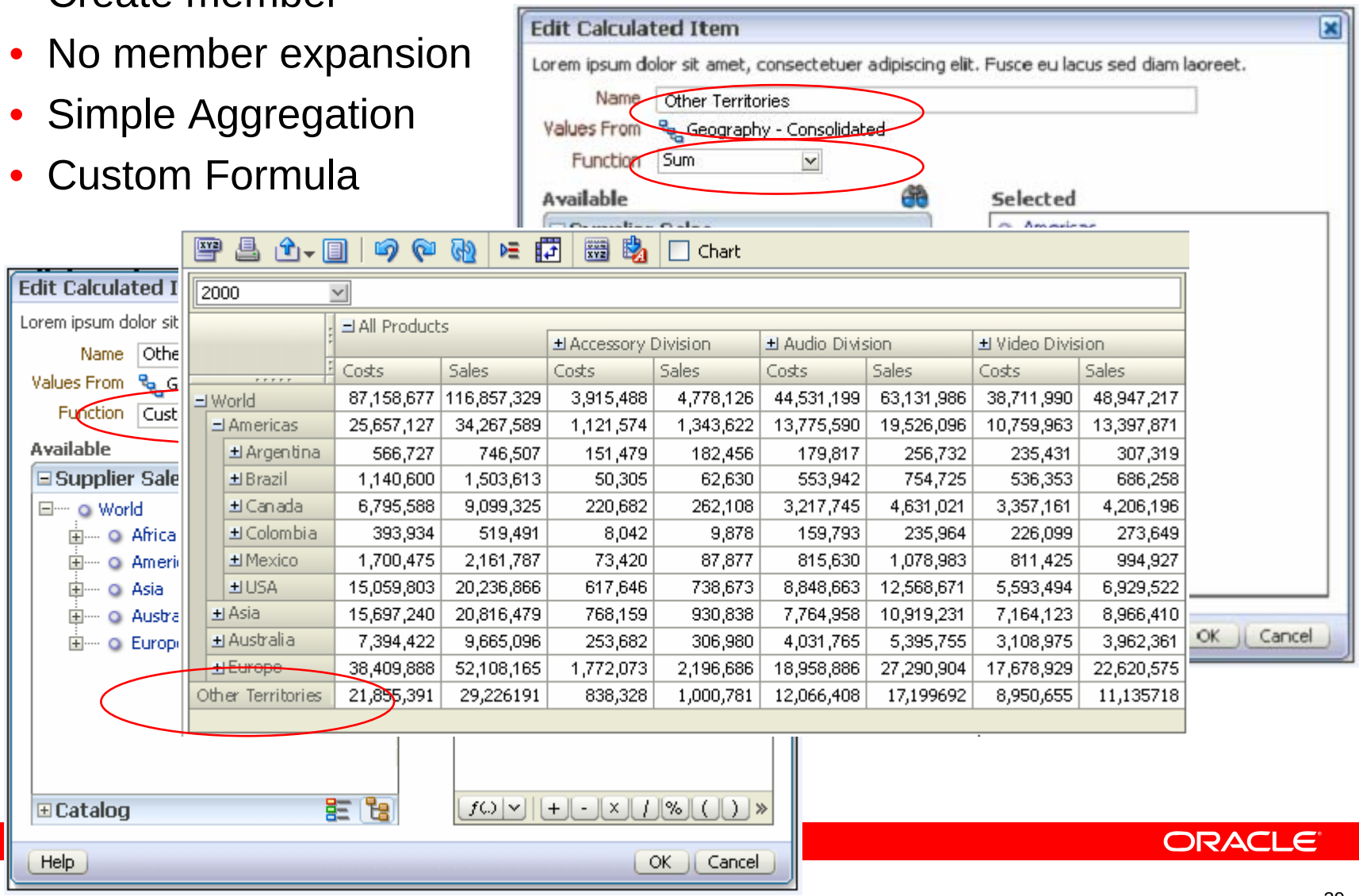
# Member Selection

- Detail Dialog to Add a new step
- Add / Keep / Remove functionality
- Simple user interface to pick desired members



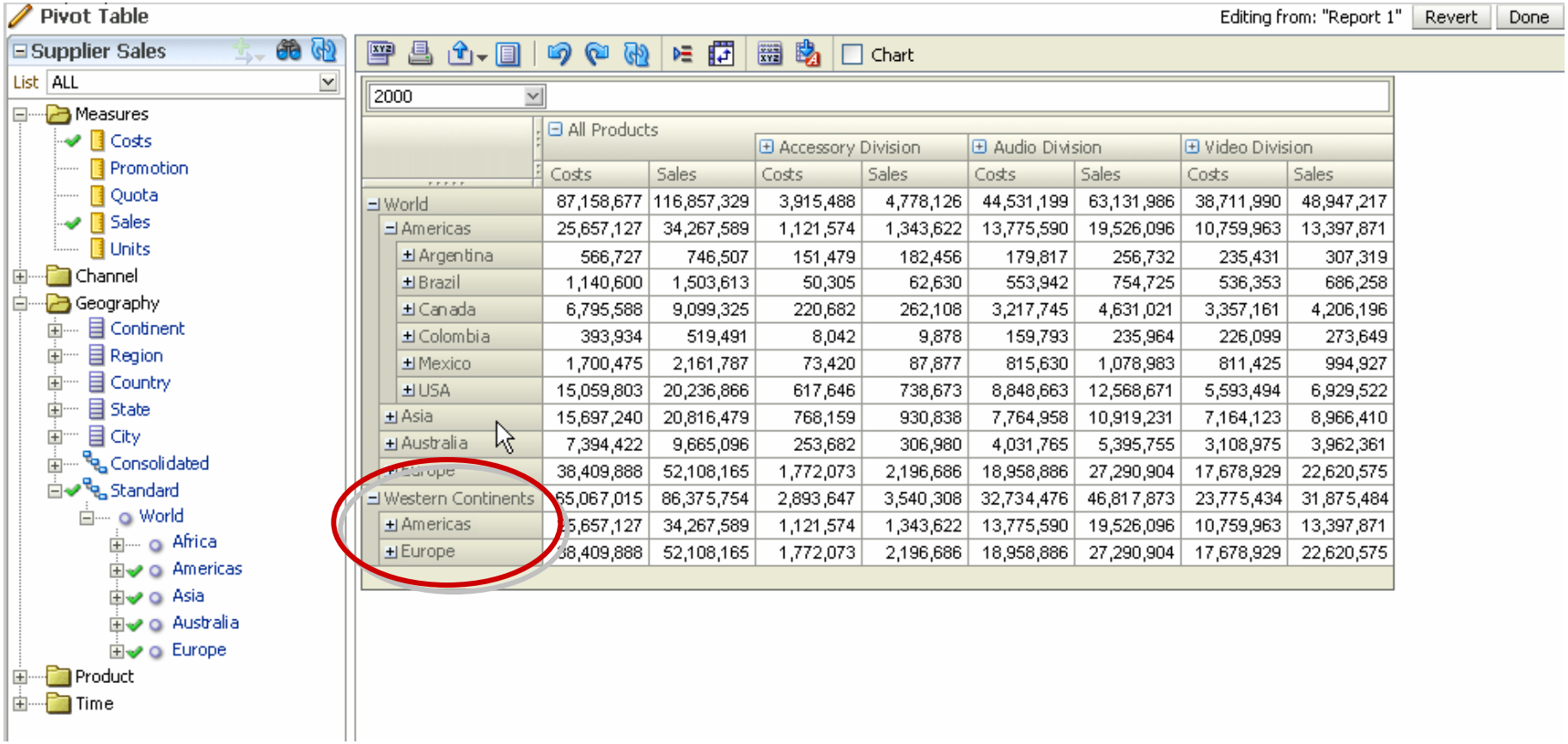
# Calculated Item

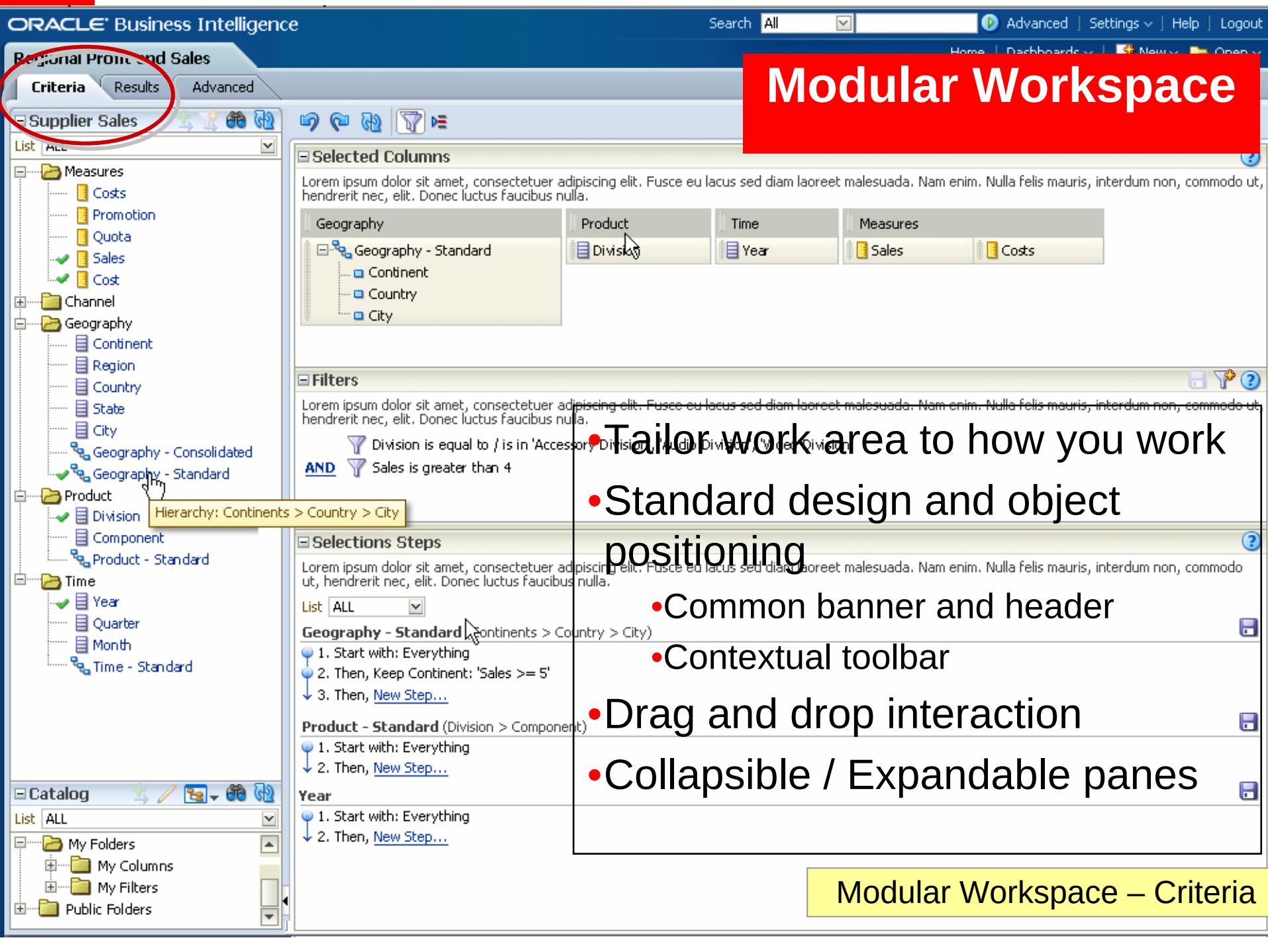
- Create member
- No member expansion
- Simple Aggregation
- Custom Formula

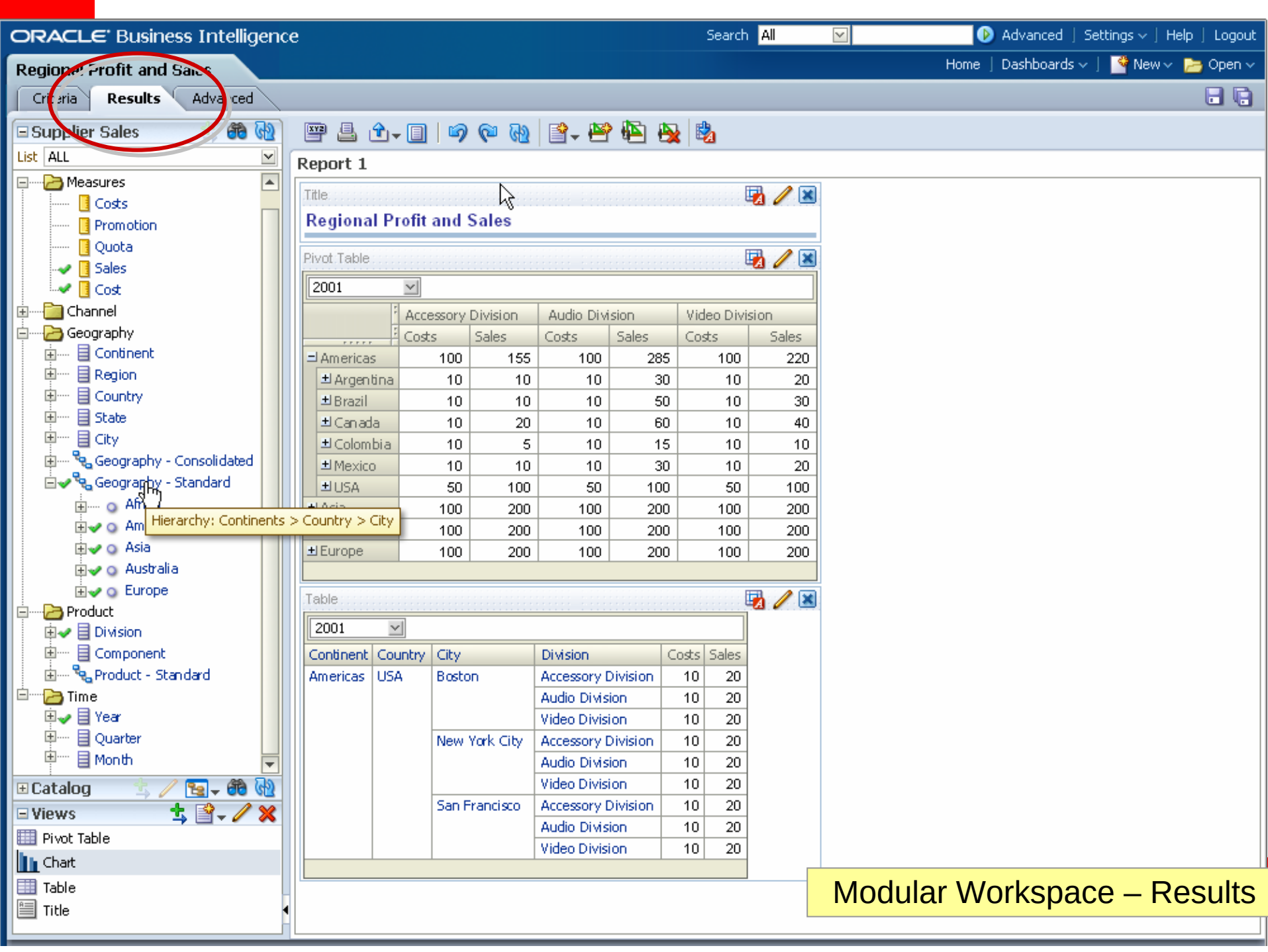


# Custom Groups - Results

- Create member specific group
- Results in a new group ‘Western Continents’ being added in the Pivot table




ORACLE Business Intelligence
Search All
Advanced | Settings | Help | Logout
Criteria
Results
Advanced
Supplier Sales
List ALL
Measures
Costs
Promotion
Quota
Sales
Cost
Channel
Geography
Continent
Region
Country
State
City
Geography - Consolidated
Geography - Standard
Product
Division
Component
Product - Standard
Time
Year
Quarter
Month
Time - Standard
Hierarchy: Continents > Country > City
Catalog
List ALL
My Folders
My Columns
My Filters
Public Folders
Selected Columns
Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Fusce eu lacus sed diam laoreet malesuada. Nam enim. Nulla felis mauris, interdum non, commodo ut, hendrerit nec, elit. Donec luctus faucibus nulla.
Geography
Geography - Standard
Continent
Country
City
Product
Division
Time
Year
Measures
Sales
Costs
Filters
Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Fusce eu lacus sed diam laoreet malesuada. Nam enim. Nulla felis mauris, interdum non, commodo ut, hendrerit nec, elit. Donec luctus faucibus nulla.
Division is equal to / is in 'Accessory Division, Audio Division, Video Division'
AND
Sales is greater than 4
Selections Steps
Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Fusce eu lacus sed diam laoreet malesuada. Nam enim. Nulla felis mauris, interdum non, commodo ut, hendrerit nec, elit. Donec luctus faucibus nulla.
List ALL
Geography - Standard (Continents > Country > City)
1. Start with: Everything
2. Then, Keep Continent: 'Sales >= 5'
3. Then, New Step...
Product - Standard (Division > Component)
1. Start with: Everything
2. Then, New Step...
Year
1. Start with: Everything
2. Then, New Step...
Modular Workspace
•Tailor work area to how you work
•Standard design and object positioning
•Common banner and header
•Contextual toolbar
•Drag and drop interaction
•Collapsible / Expandable panes
Modular Workspace – Criteria


ORACLE Business Intelligence
Search All
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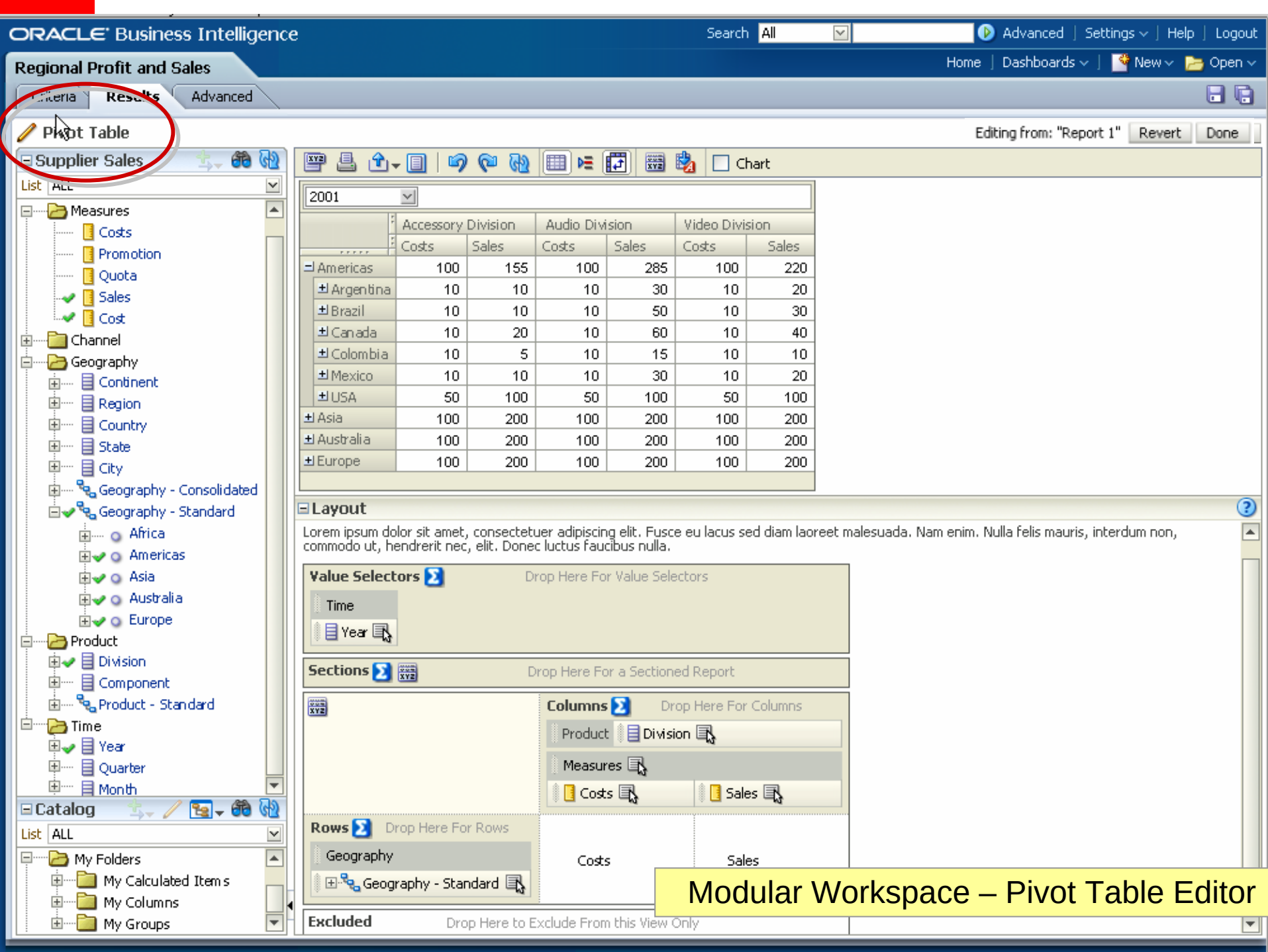
Modular Workspace – Results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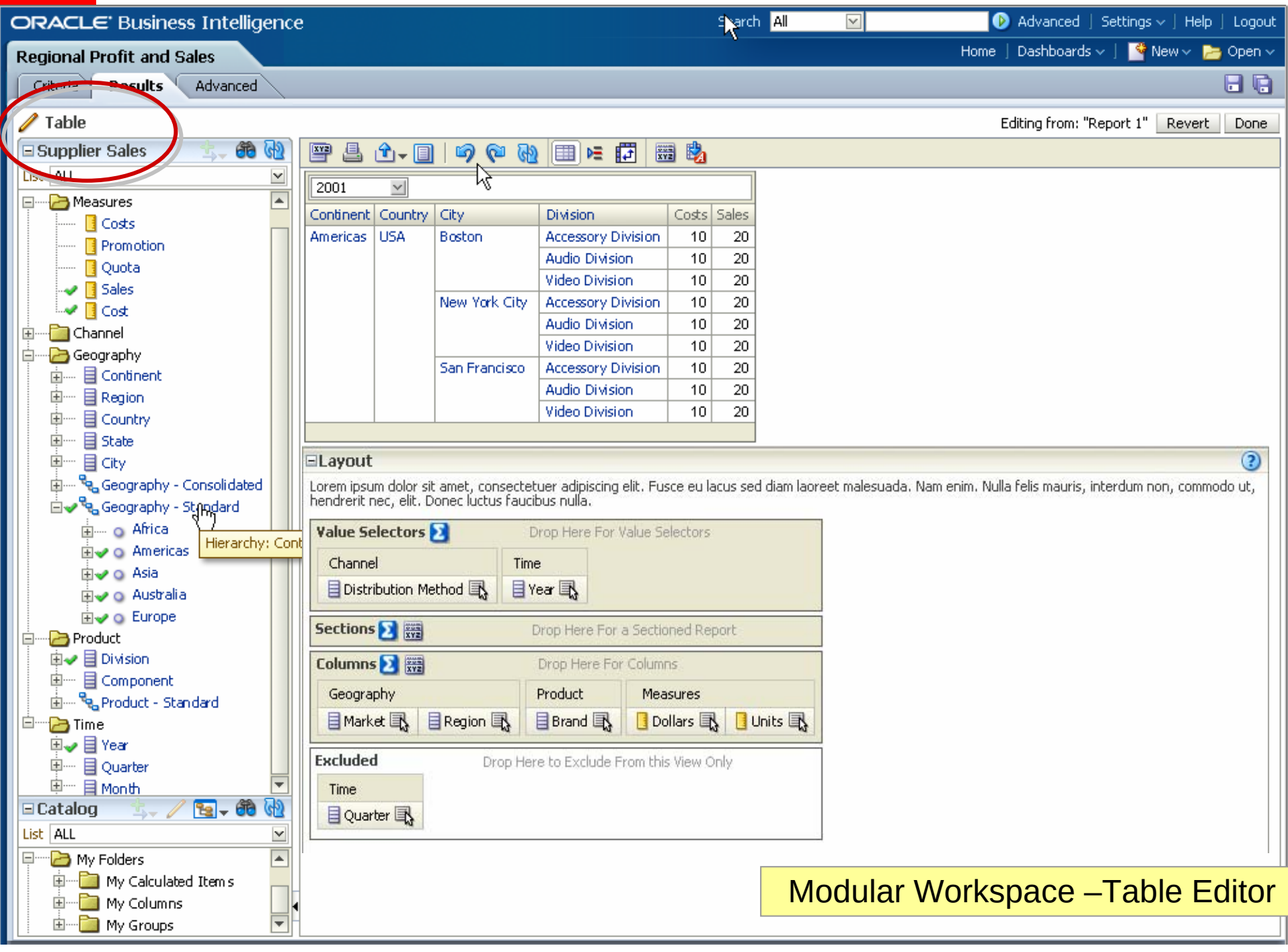
Modular Workspace – Pivot Table Editor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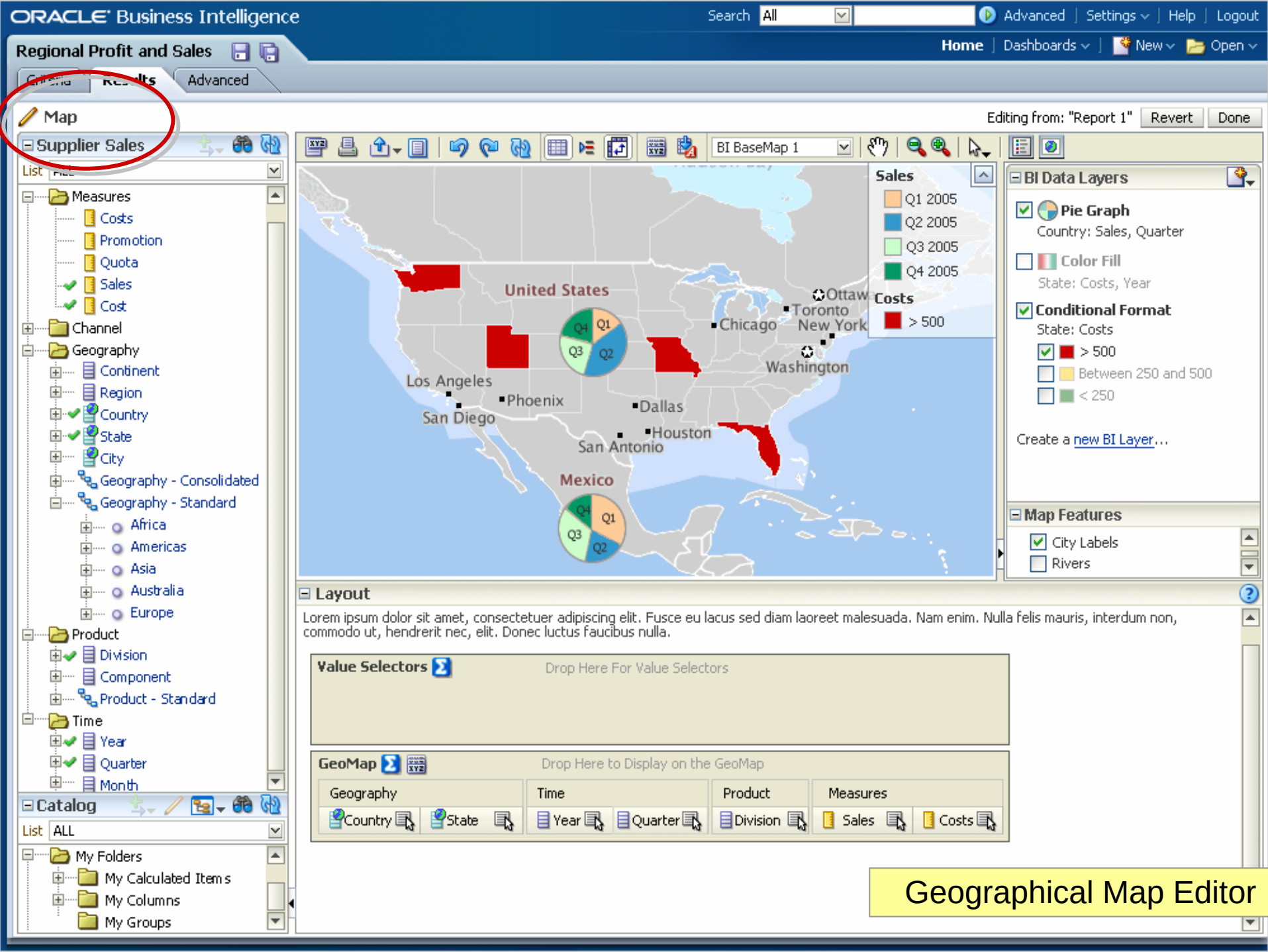
Modular Workspace –Table Editor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My Calculated Items
My Columns
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BI BaseMap 1
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Q2 2005
Q3 2005
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New York
Washington
Los Angeles
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San Diego
Dallas
Houston
San Antonio
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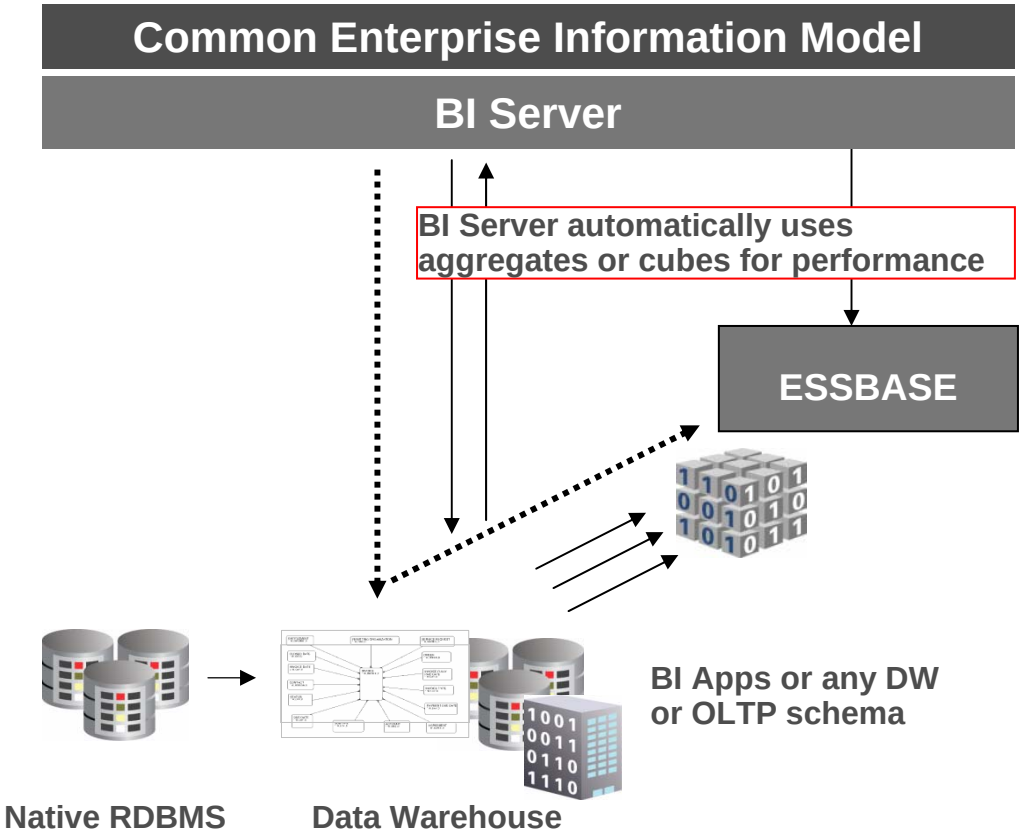
Geographical Map Editor

# Essbase as Performance Accelerator for OBIEE and OBI Apps

## Available with OBIEE 11g




- BI Server leverages summary data whenever possible to accelerate queries
- A sound aggregation strategy can transparently improve end-user query performance by many orders of magnitude
- Aggregate Persistence in OBIEE since 10.1.3.2 release for relational sources
  - Automatically defines, populates and maps metadata to system generated aggregate star schemas
  - Extremely low TCO
- Aggregate Persistence to generate Essbase and Oracle OLAP cubes planned for OBIEE 11g

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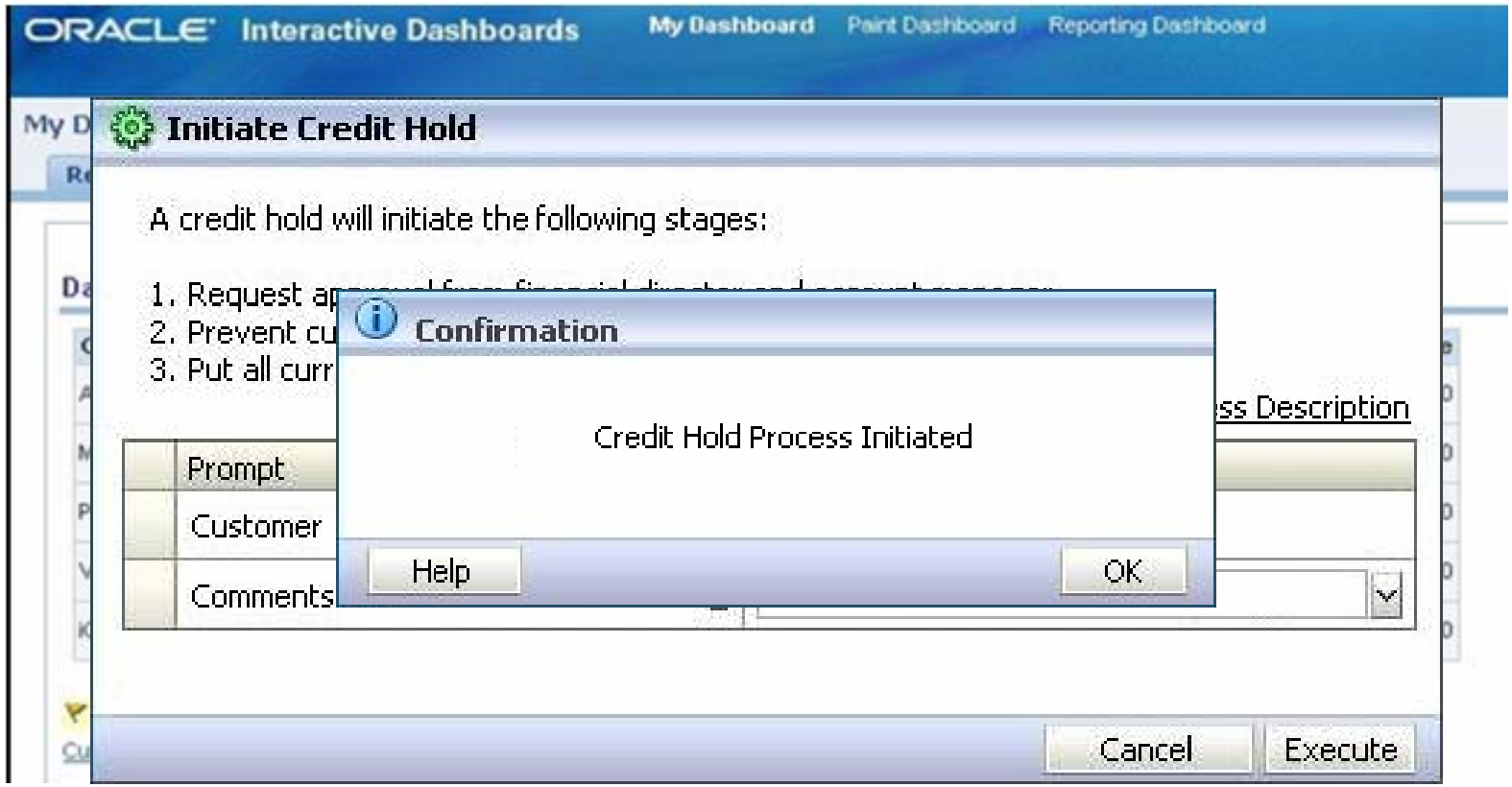
# Insight Into Action

## Invoking Business Processes from BI Dashboards

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# BI EE Scorecard

## Fully Integrated Scorecarding in BI EE 11g

### Leverage Key Platform Strengths

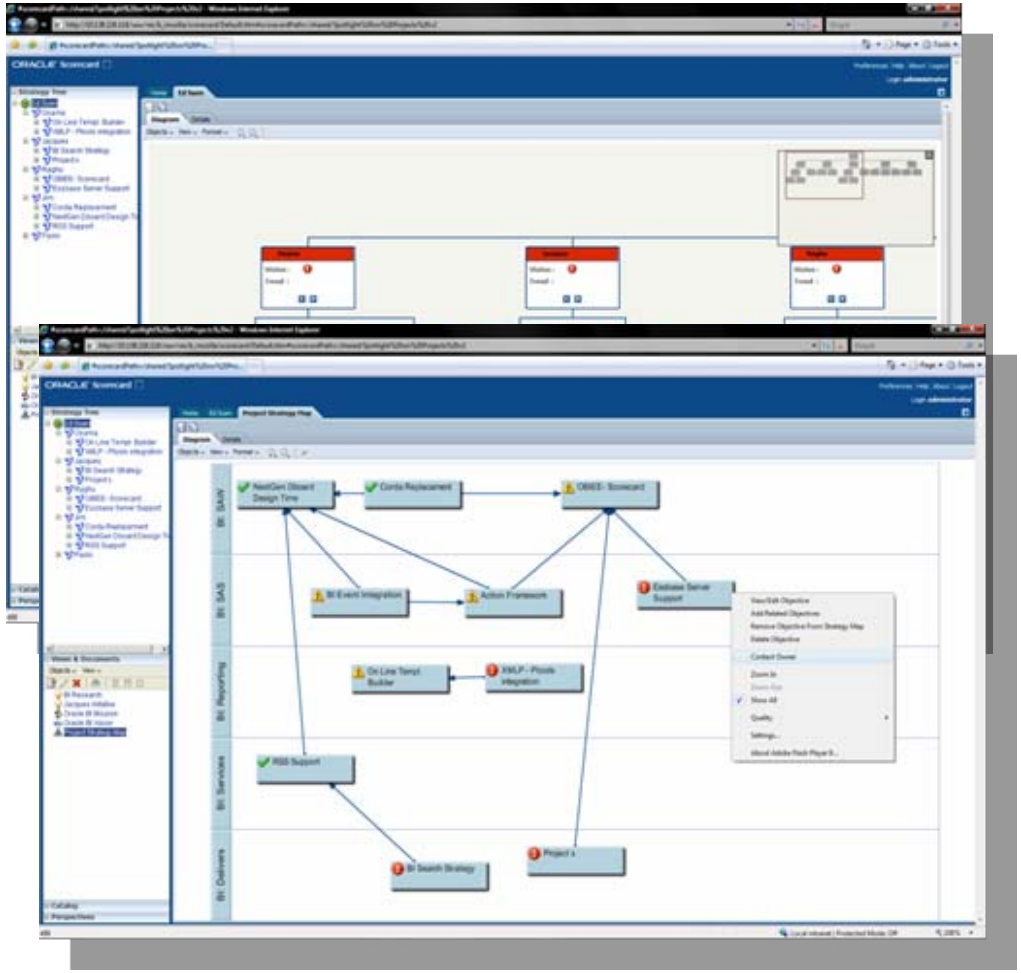
- Common, Shared Semantic metadata layer, security, etc..
- KPIs part of semantic model
- Data source agnostic BI

### Best In Class Functionality

- Dimensional KPIs
- Strategy maps, Cause & Effect, Strategy Trees, Watchlists

### Seamless Navigation to Rich BI Services

- Interactive Tables, Crosstabs, Charts
- Accessible to all BI EE interfaces
- Alerting, Notification, Workflow



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# Product Disposition

## Strategic products

| Function | Strategic BI Products |
|---|---|
| • BI Server | OBI EE Server |
| • OLAP server | Essbase |
| • Dashboards | OBI Dashboards |
| • Ad hoc query | OBI 11g Answers+ |
| • Alerting | OBI Delivers |
| • Pixel-perfect reporting | BI Publisher |
| • Office | SmartView (with OBI Office converged) |
| • Balanced Scorecard | OBI EE 11g Scorecard |
| • Print-quality Financial Reports | Hyperion Financial Reporting |

| Protect, Extend, Evolve | | Strategic Product |
|---|---|---|
| • Discoverer | -> | OBI EE |
| • Web Analysis | -> | OBI Answers+ 11g |
| • Interactive Reporting | -> | OBI Dashboards, OBI Answers |
| • SQR Production Reporting | -> | OBI Publisher |
| • Oracle Scorecard | -> | OBI Scorecard 11g |
| • PeopleSoft Scorecard | -> | OBI Scorecard 11g |
| • Hyperion Performance Scorecard | -> | OBI Scorecard 11g |

# Oracle BI EE 11g at a Glance

- BI SE to BI EE Migration
- Answers Plus
- MLS and double column support
- Fusions Business Components
- Select Physical
- Analytic Workspace Admin Tool support
- Server Credential Stored Framework (CSF)
- JAAS integration
- User Population Integration
- Native Windows 64 bit support
- Admin Tool Wizard
- Admin Tool Expression builder UI
- Caching Enhancements - combined cached results
- Multi-App Support
- Server Process Control Service
- Fusion Clustering
- Logging Framework (ODL)
- Runtime Time series and Level-based measures
- Data Mart Automation for Analytics Workspaces
- Data Mart Automation Parallel Load
- Data Mart Automation Auto-Indexing
- Data Mart Automation for Essbase
- Oracle 11g Lightweight session support
- BI Server integration with Hyperion Workspace
- HFM gateway
- Support for ReadOnly RDBMS
- FMW Audit framework
- Externalization of properties
- Portable Cache storage
- Near Zero Downtime
- Analytic Workspace Access
- Selections and Custom Aggregates
- Value, Ragged and Skip level hierarchies
- Maximize Answers query shipping to MDX sources
- Support for Custom Members
- Linux 64-bit Port
- XML based metadata API
- EBusiness Suite Action Link Formatter
- Workflow Services Integration
- Fusion Systems Management
- Backup & Recovery
- Install
- Cloning
- Patching
- BI: SAW
- Fusion BI View Components
- Pervasive Double Column Support
- Answers Plus (Framework)
- Answers Pivot View
- Answers Plus (User Interfaces)
- Publishing and Reporting UI Integration
- Programmatic VO against OracleBI Server
- Unified and Enhanced Prompting
- Presentation Services KPI Support
- Briefing Books to PDF Format
- Enhanced Action Links
- Answers Geographical Mapping View
- BLAF+ Compliance
- Oracle chart component
- My Dashboard template
- Scorecard
- Visualization Enhancements
- Disco content into BI Dashboards
- Enhanced Action Links Dashboard Interaction
- Unified Framework
- Formula Template Enhancements
- Prompted Segmentation
- Integrate BI PS with Hyperion S9 Workspace
- Integrate BI PS with Hyperion Smart Space
- Slider Dashboard Prompt
- Specify Master/Detail Relationships
- Simple Subject Area
- Online Report Builder
- Advanced Print Service
- Oracle Reports Migration Tool
- BI Publisher - JDeveloper integration
- Word Template Builder Enhancements
- RTF Master Template
- BI Office support for Writeback
- Data Template UI
- Query Builder support for Physical Select
- BI Excel Addin Enhancements
- BI PPT Addin Enhancements
- Reporting solutions for AS products
- BI Publisher FMW (AS) integration
- BI Publisher Hyperion Integration

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