

# Hyperion Planning Fundamentals



## Objectives

After completing the presentation, you should be able to understand how to:

- Create Planning applications using EPMA
- Create dimensions
- Load Meta data from Files
- Set up Exchange Rates
- Set up security for users, groups, and member access
- Create data forms, enter data and manipulate/adjust data
- Set up and test business rules
- Review budget data by using Process Management
- Migration of applications using LCM
- Working with Planning Classic Administration

## Readers Expectation out of this presentation

Your expectations out of this 5-day Hyperion Planning course, are –

- Overall functionality of Hyperion Planning
- Advanced understanding of Hyperion Planning so that it can help during implementation.
- Learn System admin activities for Hyperion Planning

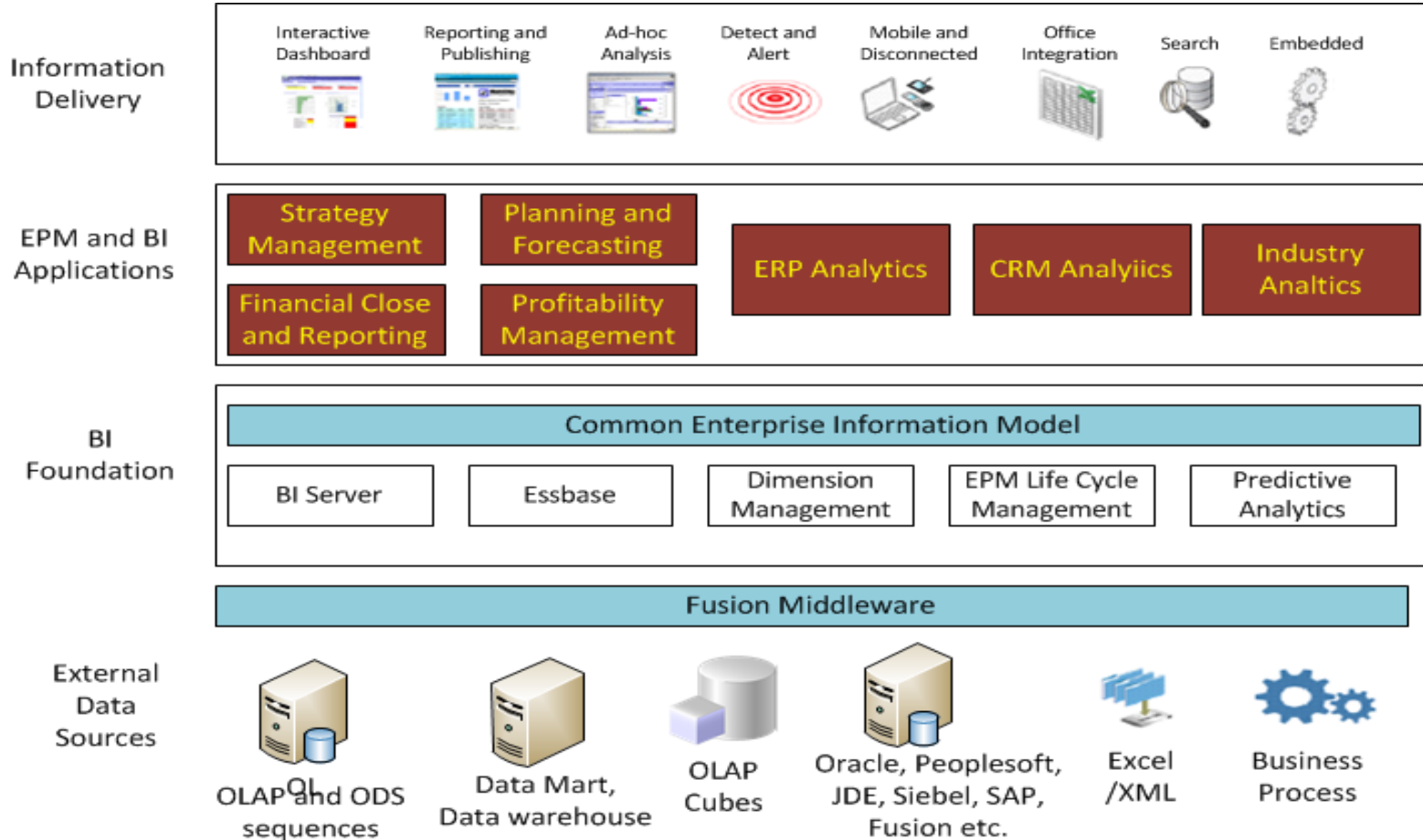
# Lesson 1 - Planning Overview

## Objectives

After completing this lesson, you should be able to:

- Describe Oracle's Enterprise Performance Management system
- Describe the main features of Planning
- Describe the product architecture of Planning
- Describe the relationship between Planning and Essbase

# Oracle's Enterprise Performance Management System



## EPM and BI Application Components

This Layer includes integrated suite of market leading Performance Management tools, based on Hyperion product suite.

- Oracle Hyperion Financial Management, Fusion Edition
- Oracle Hyperion Performance Management Scorecard, Fusion Edition
- Oracle Hyperion Strategic Finance, Fusion Edition
- Oracle Hyperion Planning, Fusion Edition
- Oracle Hyperion Capital Asset Planning, Fusion Edition
- Oracle Hyperion Workforce Planning, Fusion Edition
- Oracle Hyperion Profitability and Cost management, Fusion Edition
- Oracle Hyperion Public Sector Planning and Budgeting, Fusion Edition
- Oracle Hyperion Financial Data Quality manager, with SAP Adapter
- Oracle Integrated Operation Planning, Fusion Edition
- Oracle Integrated Margin Planning, Fusion Edition, for Hyperion v11.1.2
- Oracle Crystal Ball, Fusion Edition

Hyperion Product Components

Workspace

**Financial Performance Management Applications**

Financial Management

Planning

Strategic Finance

Performance Scorecard

**Essbase**

Essbase

Administration Services

Provider Services

Integration Services

**Reporting and Analysis**

Interactive Reporting

Web Analysis

Financial Reporting

SQR Production Reporting

**Data Management**

Data Relationship Management

Data Integration Management

Financial Data Quality Management

**Foundation Services**

Shared Services

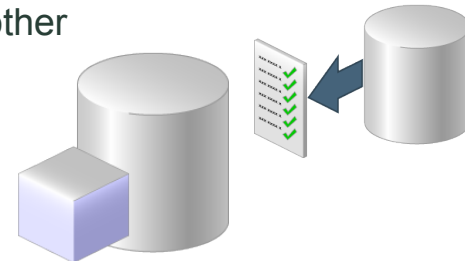
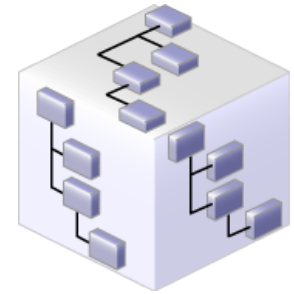
Smart View



## Hyperion Planning

Planning has the following features:

- Multidimensional data structure
- Target setting and bottom-up planning
- Iterative planning cycles
- Complex business rules and allocations
- Web-based data entry; management of the planning cycle through Web or Excel interface.
- Currency conversion for multicurrency applications
- Headcount and salary expense modeling
- Metadata and data synchronization between Planning applications and other Hyperion products
- Enhance decision making capability
- Integrate with reporting system for report and analysis



## Product Components

- Planning
- Essbase
- Administration Services
- Performance Management Architect
- Workspace
- Calculation Manager
- Smart View
- Financial Reporting
- Shared Services

## Related Product Components

- Workforce Planning
- Capital Expense Planning
- Public Sector Planning and Budgeting
- Profitability and Cost Management
- Performance Scorecard
- Strategic Finance
- Financial Management
- Financial Data Quality Management

# Hyperion Planning Architecture

## Client

Administrator Client



Workspace



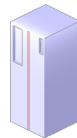
Smart View Client



Reporting Studio Client



## Application



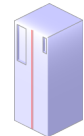
Financial Reporting Server



Shared Services, Java Application Server for Planning, EPM Architect, Administration Services



EPM Architect Dimension Server



Web Server

## Database



EPM Architect RDBMS

ODI / ERPi



Planning RDBMS

Legacy, ERP systems

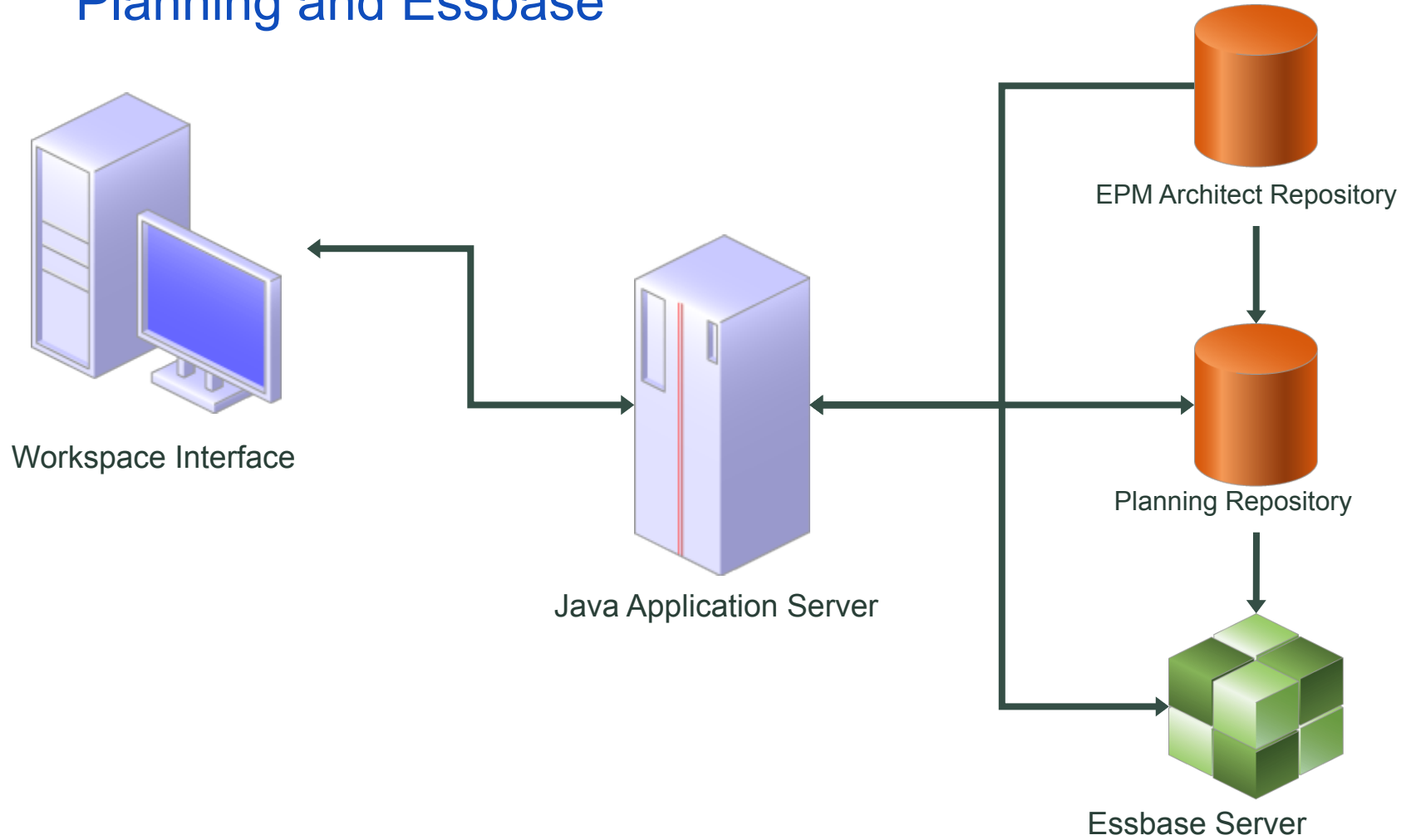


Essbase

## External Services



## Planning and Essbase





## Performance Management Architect

- Create metadata and manage applications
  - Maintain a centralized repository
  - Load metadata by using flat files or interface tables
  - Create Planning applications
  - Create and work with Planning applications and dimensions
- Synchronize data

## Calculation Manager

- Maintain business rules repository
- Create business rules with a graphic editor
- View calculation scripts created as a result of graphic editor selections
- Select from reusable components
- Create business rules from predefined and custom templates
- Set sequence for rules to execute by defining rulesets
- Import calculation scripts from Essbase and view in a graphic editor



## Planning Interface

- Manage Planning components
  - Manage data forms, task lists, and user variables
  - Assign member access
  - Copy data (including supporting details)
  - View statistics and run administration reports
- Enter data, supporting details, and annotations
- Run business calculations
- Manage workflow
  - Manage the Planning process
  - Copy data between versions

## Which data get stored where?

### Planning Relational Database stores

- Application Framework
- Metadata (Dimension, member, property)
- Exchange Rates
- Security and Member Access
- Process Management/ Planning Units
- Annotations/ Cell Text/ Supporting Details
- Work flow / Task Lists
- Preferences
- Application Setup
- Data Forms
- User Variables
- Smart Lists
- Business Rules

### Essbase Stores

- Security
- Planning Data and Metadata
- Calculation Scripts

## Planning Repository and Essbase



Planning relational  
database

Examples include  
supporting detail,  
comments, and  
document  
attachments



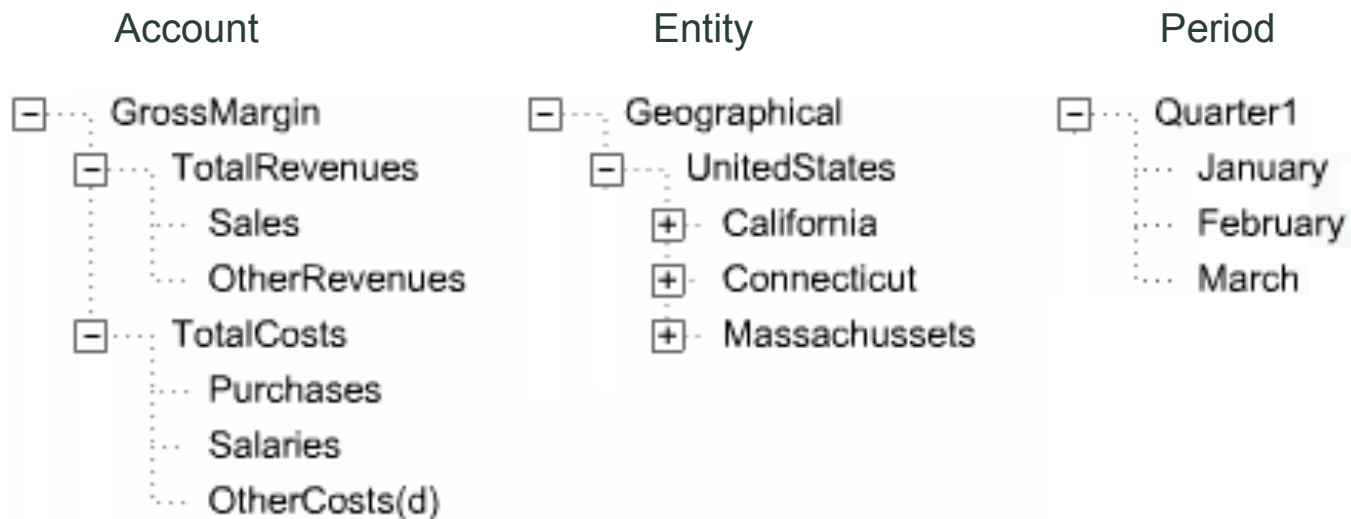
Essbase database

Examples include  
numeric data  
values for smart  
lists and other data



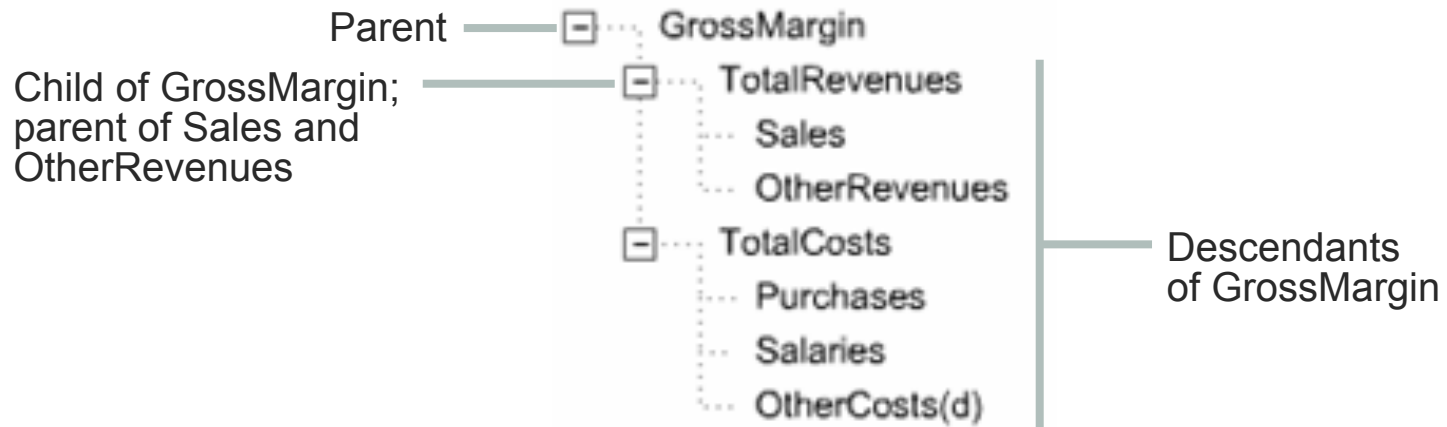
## Dimensions

Structural elements of an application that describe and hold data.

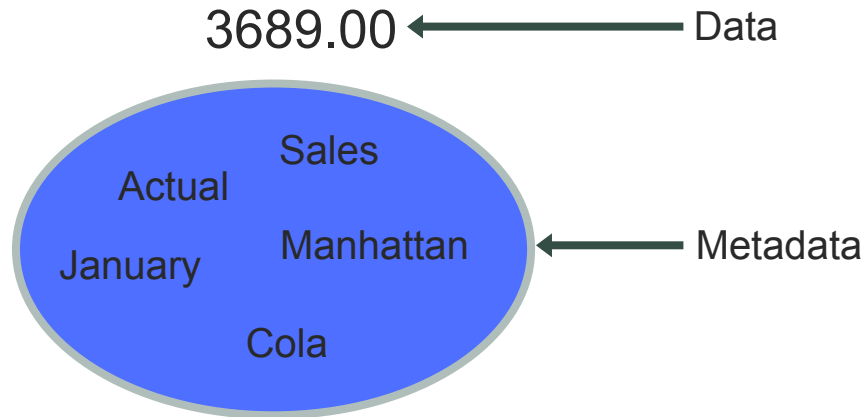




## Dimension Hierarchies



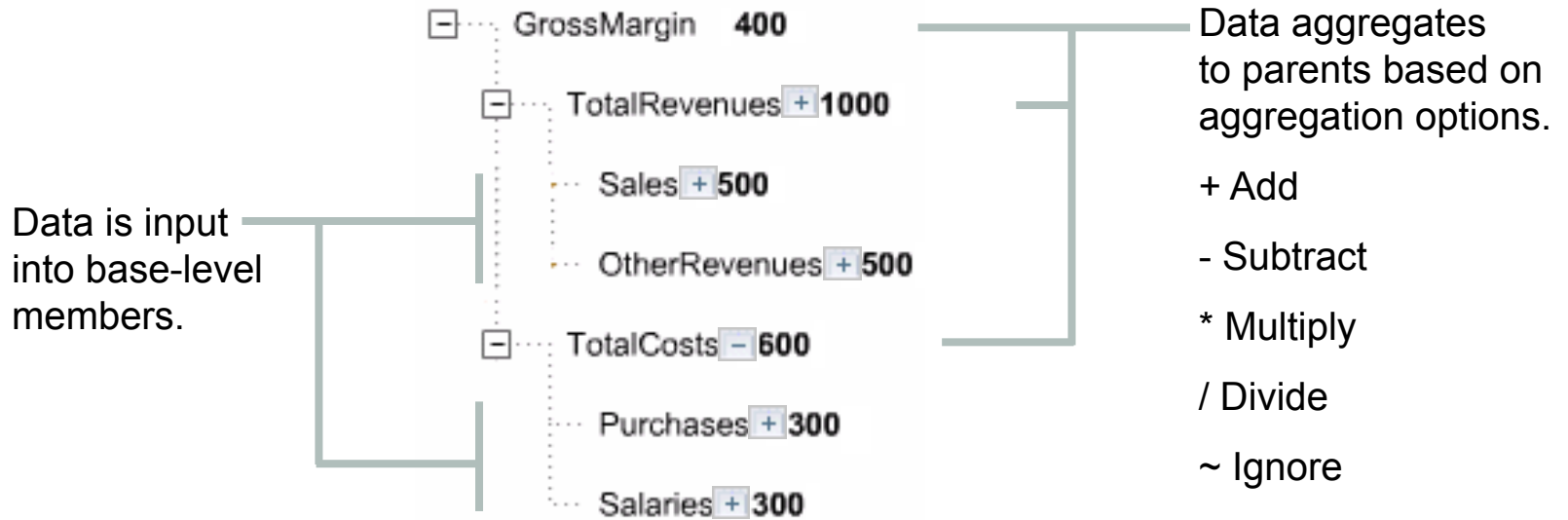
## Metadata



January actual sales for cola in Manhattan are 3689.00.



## Dimensions and Data



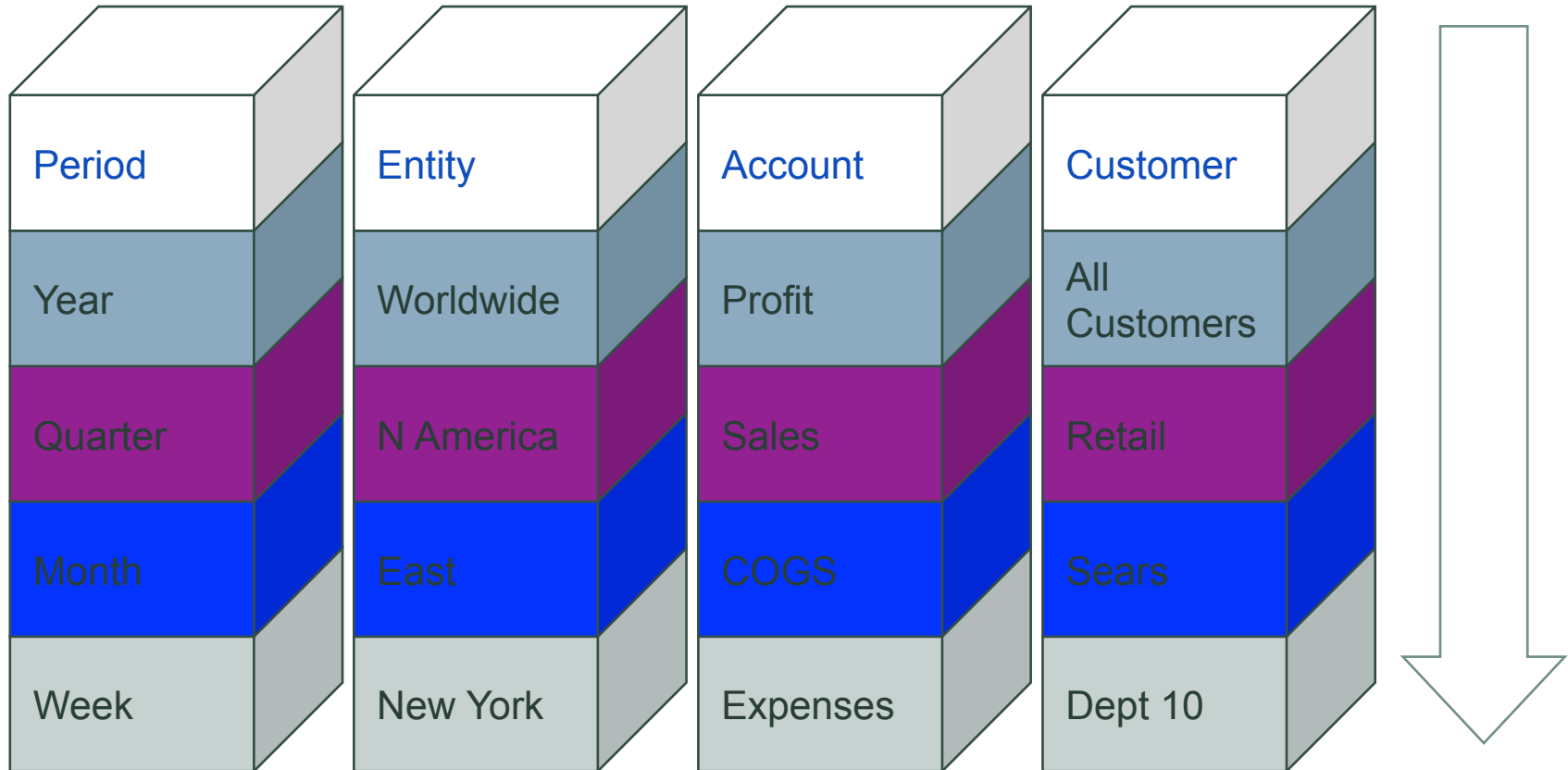


## Multidimensional View of Information

		East		West	
		Actual	Budget	Actual	Budget
TV	Jan				
	Feb				
	Mar				
	Qtr 1				
VCR	Jan				
	Feb				
	Mar				
	Qtr 1				

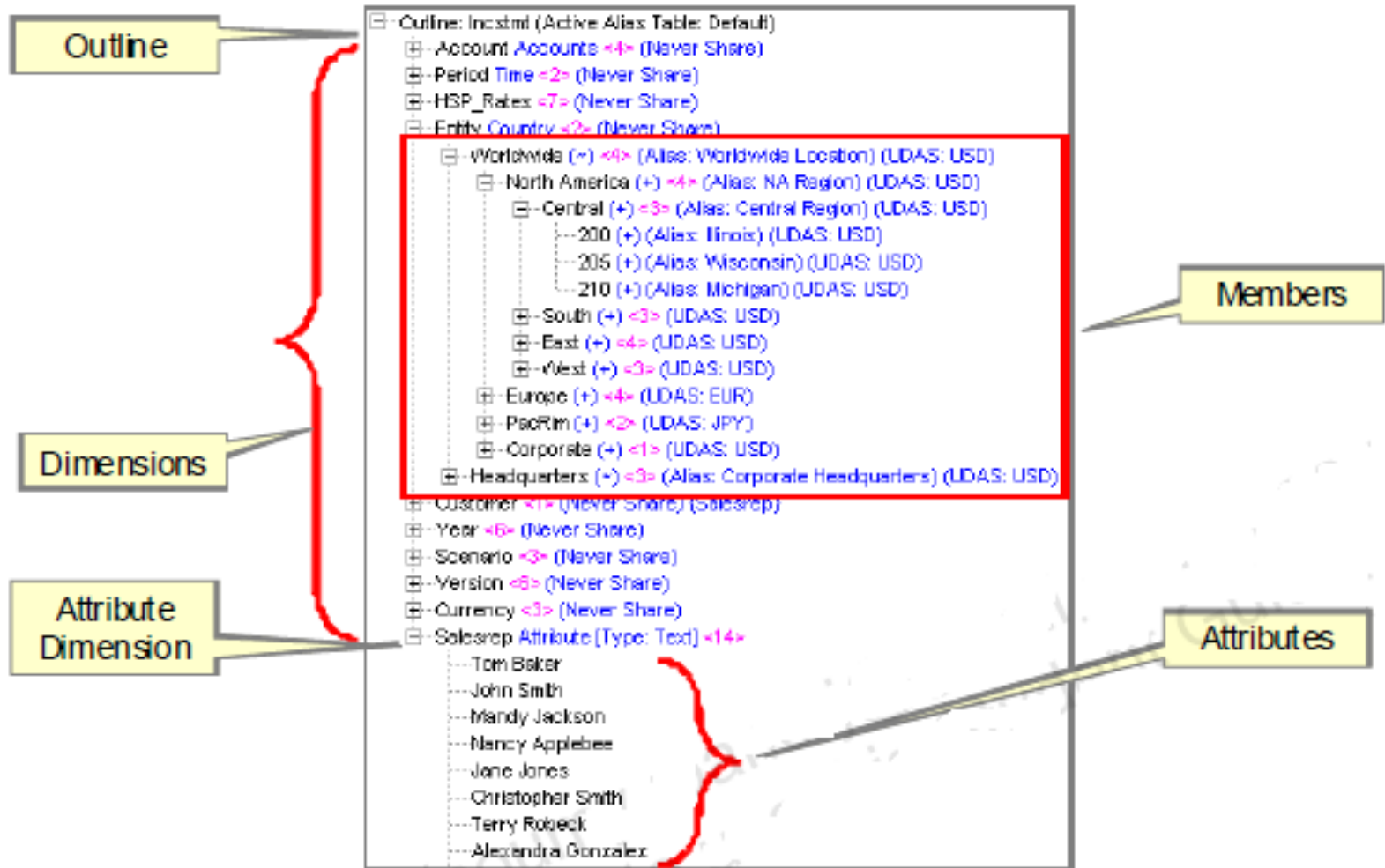
		February		March	
		Actual	Budget	Actual	Budget
Sales	Camera				
	TV				
	VCR				
	Audio				
Margin	Camera				
	TV				
	VCR				
	Audio				

## Drill-Down Process



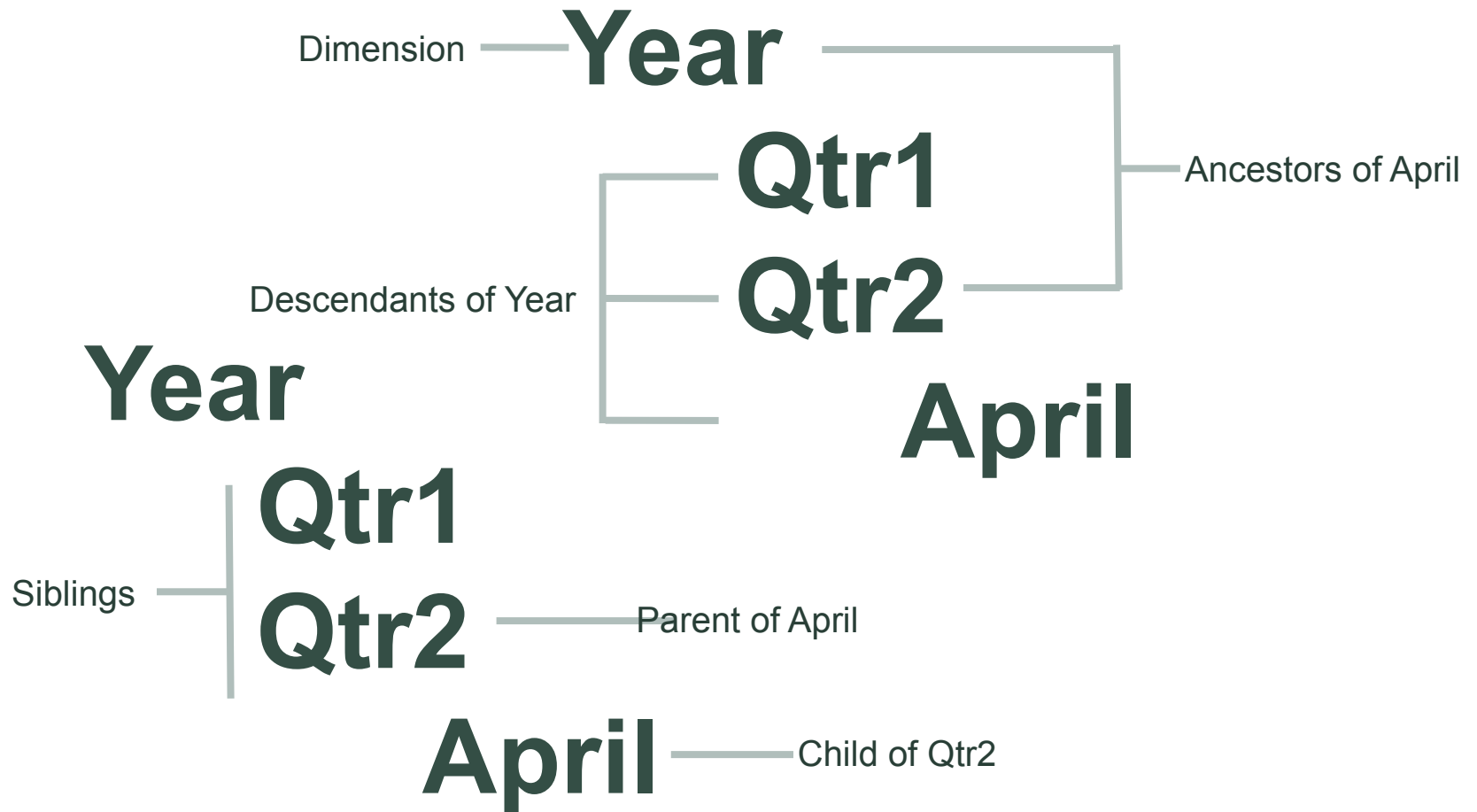


## Essbase Terminology — Hierarchies





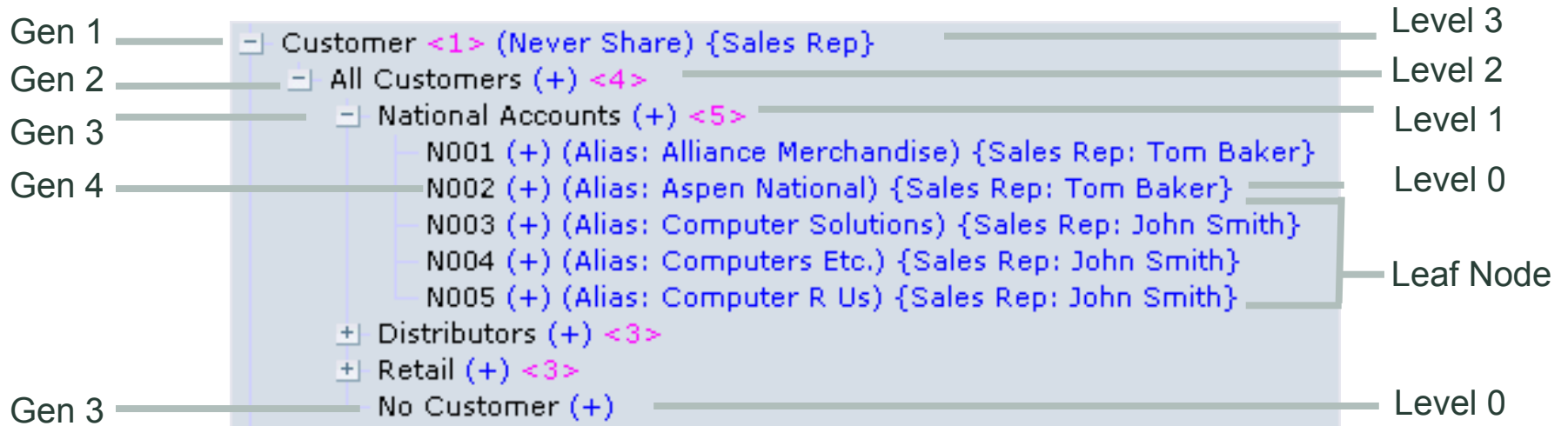
# Essbase Terminology — Families







## Essbase Terminology —Generations and Levels



## Summary

In this lesson, you should have learned to:

- Describe Oracle's Enterprise Performance Management system
- Describe the main features Planning
- Describe the product architecture of Planning
- Describe the relationship between Planning and Essbase

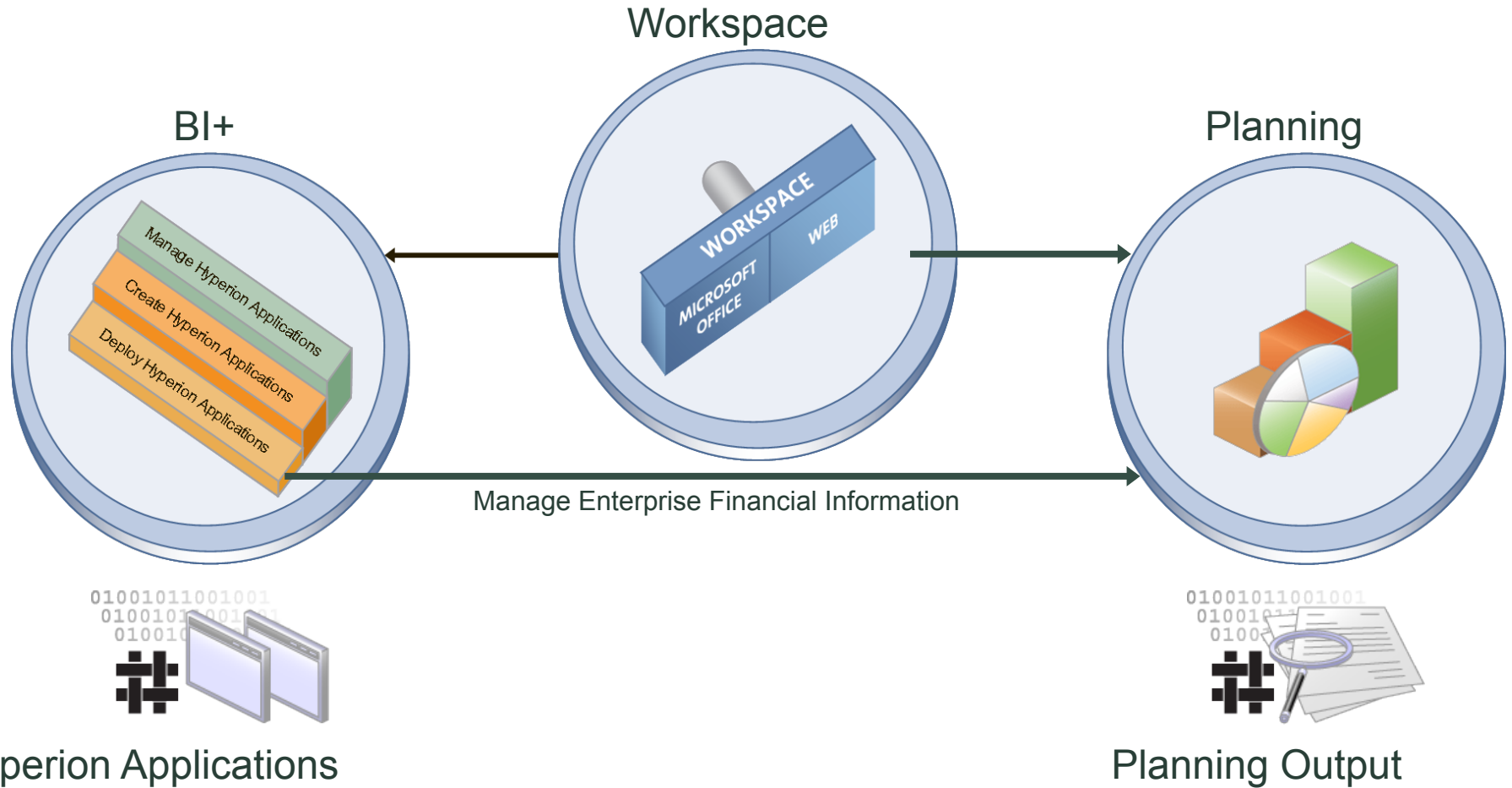
# Lesson 2 – Navigating Workspace

## Objectives

After completing this lesson, you should be able to:

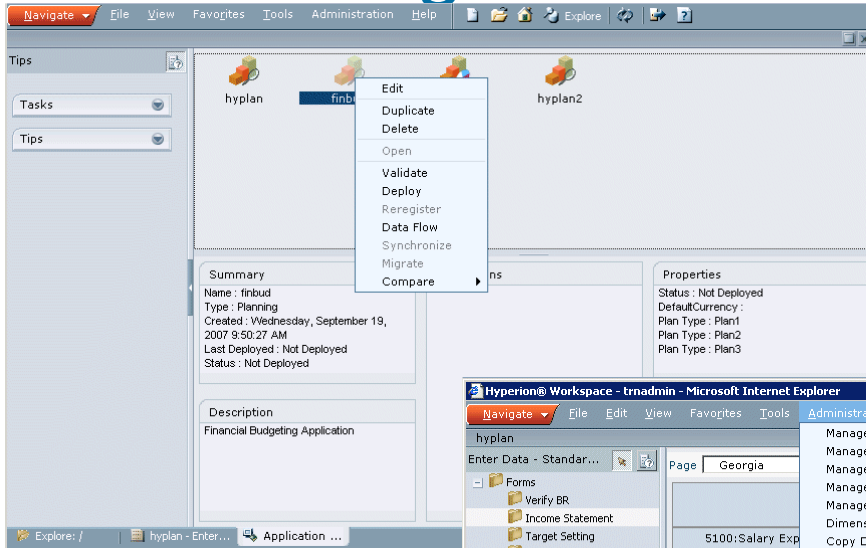
- Describe the user interface components
- Access Planning through Workspace
- Navigate Planning

# Workspace



# Workspace Overview

## Manage View



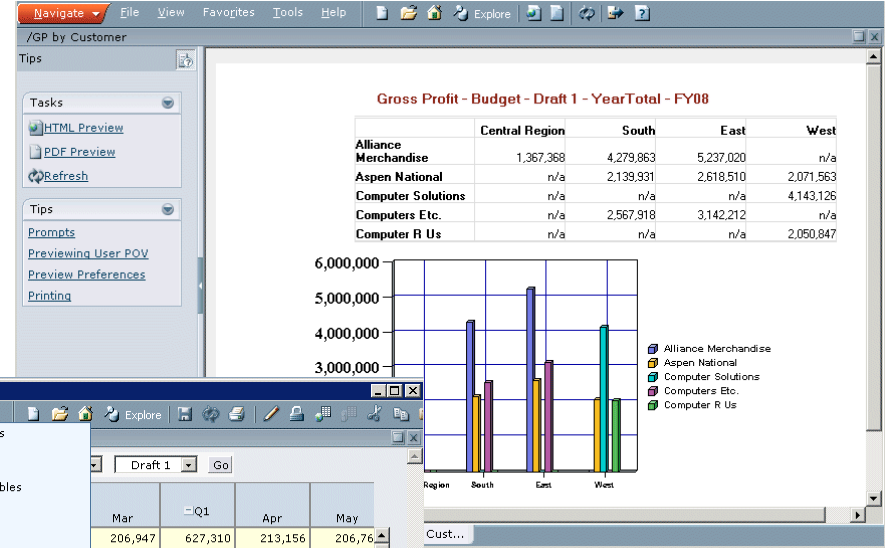
Summary

Name : finbud  
Type : Planning  
Created : Wednesday, September 19, 2007 9:50:27 AM  
Last Deployed : Not Deployed  
Status : Not Deployed

Description  
Financial Budgeting Application

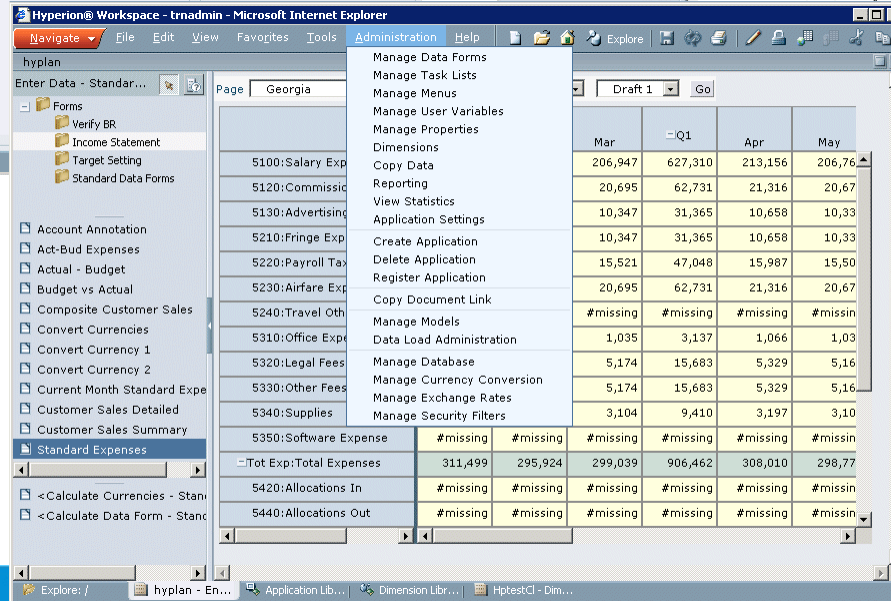
Properties

Status : Not Deployed  
Default Currency :  
Plan Type : Plan1  
Plan Type : Plan2  
Plan Type : Plan3



**Gross Profit - Budget - Draft 1 - Year Total - FY08**

	Central Region	South	East	West
Alliance Merchandise	1,367,368	4,279,863	5,237,020	n/a
Aspen National	n/a	2,139,931	2,618,510	2,071,563
Computer Solutions	n/a	n/a	n/a	4,143,126
Computers Etc.	n/a	2,567,918	3,142,212	n/a
Computer R Us	n/a	n/a	n/a	2,090,847



Administration

- Manage Data Forms
- Manage Task Lists
- Manage Menus
- Manage User Variables
- Manage Properties
- Dimensions
- Copy Data
- Reporting
- View Statistics
- Application Settings
- Create Application
- Delete Application
- Register Application
- Copy Document Link
- Manage Models
- Data Load Administration
- Manage Database
- Manage Currency Conversion
- Manage Exchange Rates
- Manage Security Filters

Page	Georgia	Mar	Q1	Apr	May
5100:Salary Exp		206,947	627,310	213,156	206,76
5120:Commission		20,695	62,731	21,316	20,67
5130:Advertising		10,347	31,365	10,658	10,33
5210:Fringe Exp		10,347	31,365	10,658	10,33
5220:Payroll Tax		15,521	47,048	15,987	15,50
5230:Airfare Exp		20,695	62,731	21,316	20,67
5240:Travel Oth		#missing	#missing	#missing	#missin
5310:Office Exp		1,035	3,137	1,066	1,03
5320:Legal Fees		5,174	15,683	5,329	5,16
5330:Other Fees		5,174	15,683	5,329	5,16
5340:Supplies		3,104	9,410	3,197	3,10
5350:Software Expense	#missing	#missing	#missing	#missing	#missin
Tot Exp:Total Expenses	311,499	295,924	299,039	906,462	308,010
5420:Allocations In	#missing	#missing	#missing	#missing	#missin
5440:Allocations Out	#missing	#missing	#missing	#missing	#missin

Work with  
Planning



## Launching Workspace

Oracle Enterprise Performance Management System Workspace, Fusion Edition - Microsoft Internet Explorer

**ORACLE** Enterprise Performance Management System Workspace, Fusion Edition

File

Log On

User Name:  
trnadmin

Password:  
\*\*\*\*\*

Log On

**ORACLE**  
ENTERPRISE PERFORMANCE  
MANAGEMENT SYSTEM

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## Workspace User Interface

The screenshot displays the Oracle Enterprise Performance Management System Workspace, Fusion Edition. The interface includes a menu bar at the top with options like 'Navigate', 'File', 'Edit', 'View', 'Favorites', 'Tools', and 'Help'. A document tab bar shows 'HomePage' and 'Explorer: /Sample Content'. A search field is located in the top right corner. The main content area is divided into a 'View pane' on the left showing a folder tree, and a 'Content area' on the right displaying a table of files. An 'Adjuster' is visible at the bottom of the view pane.

Name	Type	Modified	Description
Getting Started with Sample Cont...	HTML File	12/7/09 8:09 PM	

Callouts in the image identify the following components:

- Menu bar
- Document tab bar
- Standard toolbar
- Search field
- View pane
- Adjuster
- Content area





## Setting User Preferences

Preferences

General

Authentication

Explore

SQL Production Reporting

Financial Reporting

Web Analysis

Planning

Default Startup Options

Content:  
Application

Application:  
PE

Prompt to Save Unsaved Files

Show Path For Documents

Your e-mail address:  
admin@oracle.com

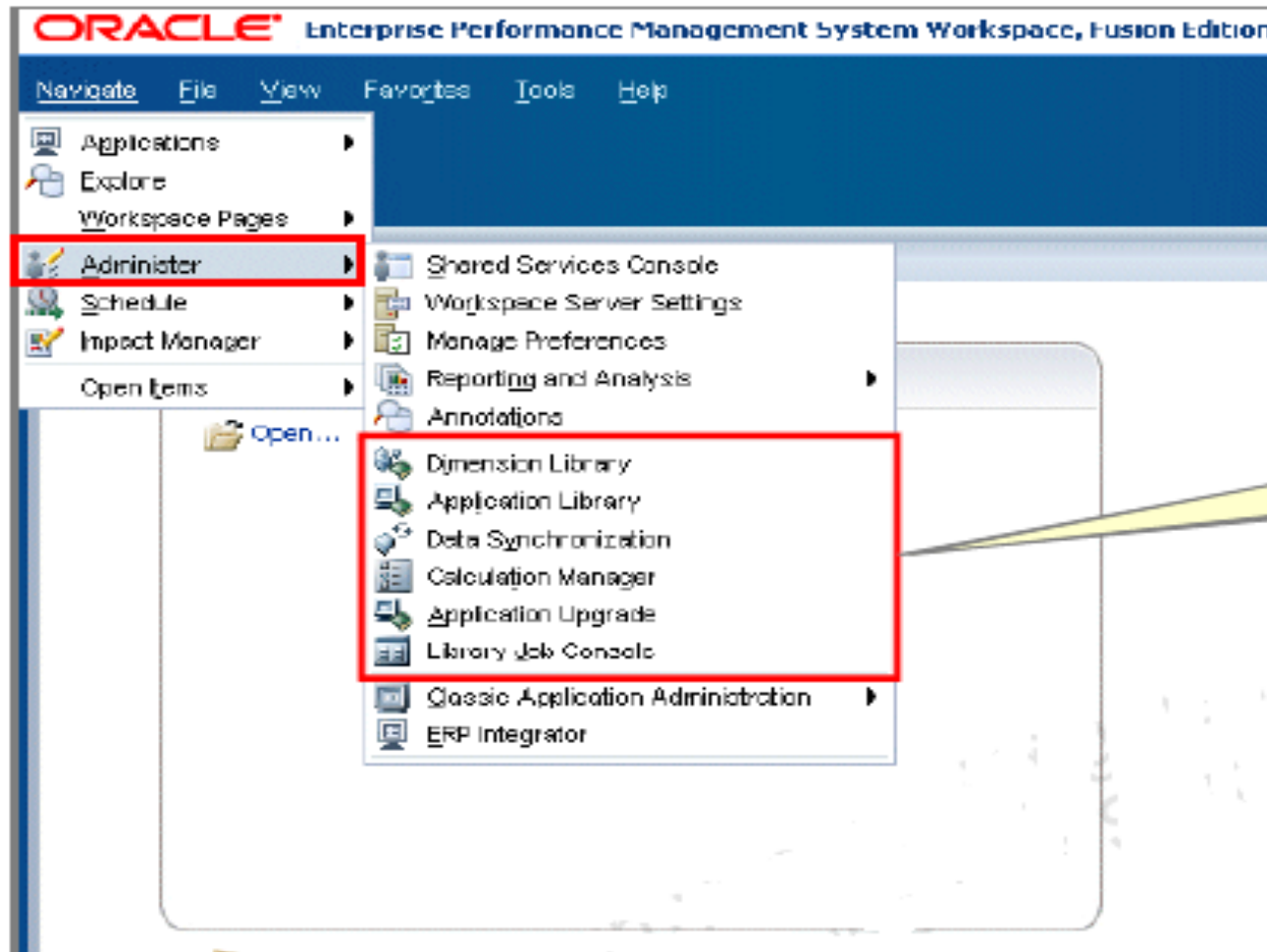
Accessibility Mode

Enable Screen Reader Support

Select Theme:  
Normal



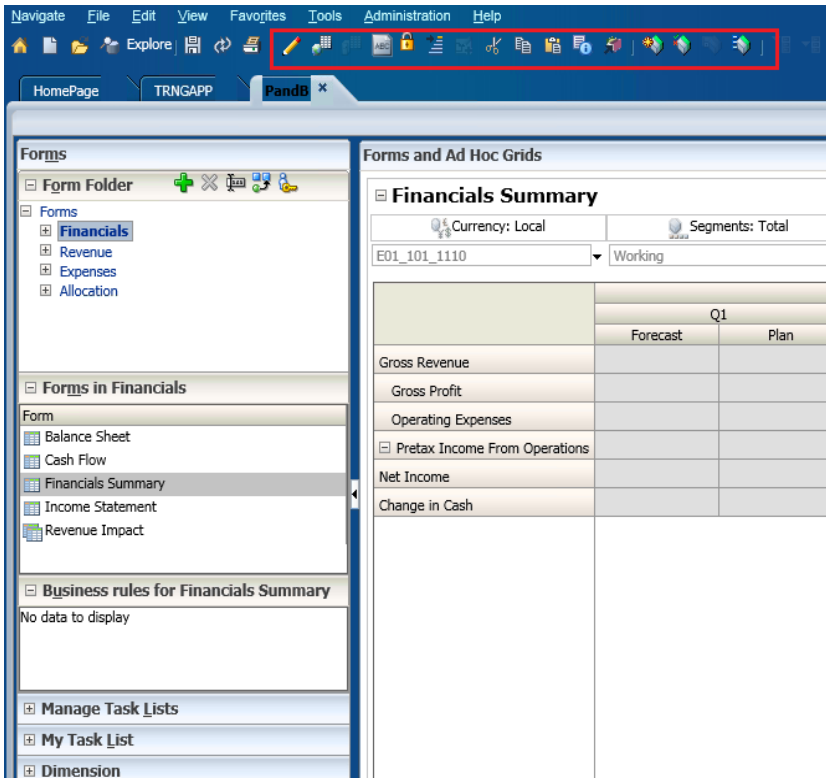
## Opening Applications



Performance Management Architect tasks

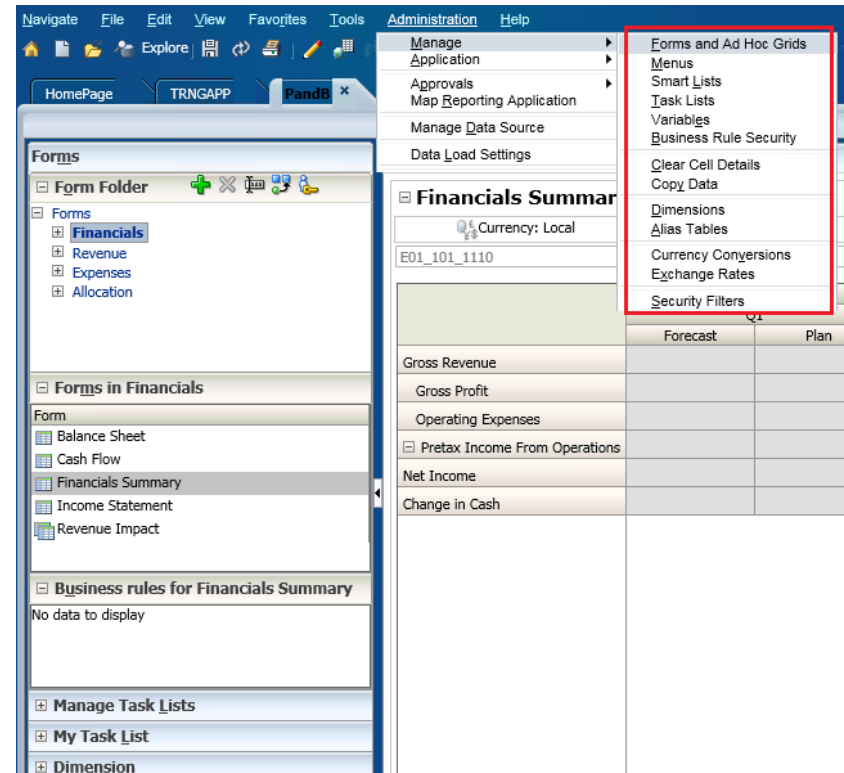
# Navigating in Planning

## Planning toolbar



The screenshot shows the top toolbar of the Fusion Practices application. A red box highlights the 'Tools' section of the toolbar, which contains various icons for editing and data management, including a pencil, eraser, and various data manipulation tools.

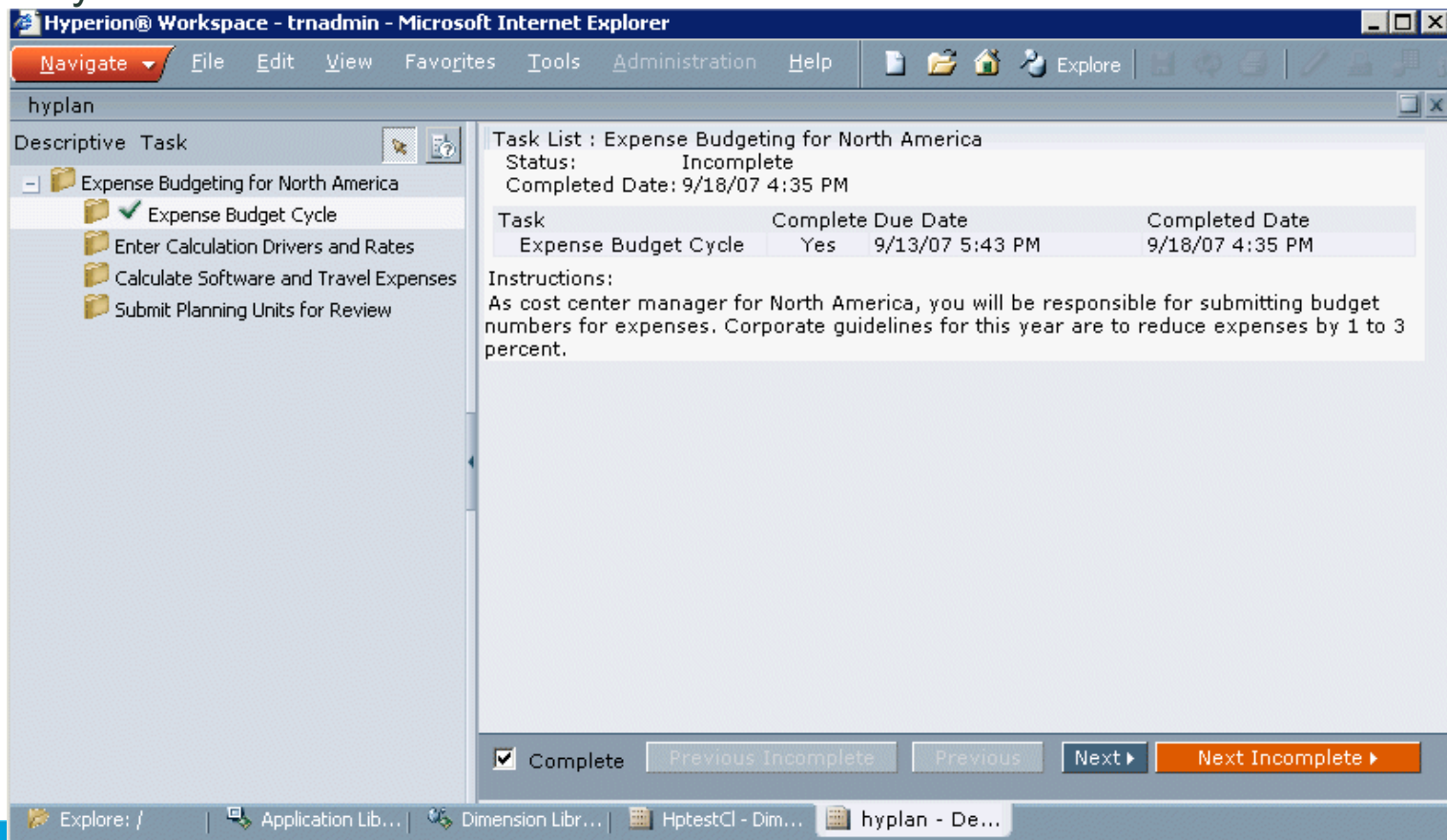
## Planning Menus



The screenshot shows the 'Administration' menu in the Fusion Practices application. A red box highlights the 'Forms and Ad Hoc Grids' sub-menu, which contains a list of options for managing forms and grids, including 'Forms and Ad Hoc Grids', 'Menus', 'Smart Lists', 'Task Lists', 'Variables', 'Business Rule Security', 'Clear Cell Details', 'Copy Data', 'Dimensions', 'Alias Tables', 'Currency Conversions', 'Exchange Rates', and 'Security Filters'.

## Basic and Advanced Modes

Basic mode limits users to the tasks and documents in the Task Lists to which they have access.



The screenshot shows a web browser window titled "Hyperion® Workspace - trnadmin - Microsoft Internet Explorer". The browser's address bar shows "hyplan". The main content area displays a task list for "Expense Budgeting for North America". The status is "Incomplete" and the completed date is "9/18/07 4:35 PM". A table lists the tasks and their completion details:

Task	Complete	Due Date	Completed Date
Expense Budget Cycle	Yes	9/13/07 5:43 PM	9/18/07 4:35 PM

Instructions:  
As cost center manager for North America, you will be responsible for submitting budget numbers for expenses. Corporate guidelines for this year are to reduce expenses by 1 to 3 percent.

Navigation buttons at the bottom include:  Complete, Previous Incomplete, Previous, Next, and Next Incomplete.



Delivering best practices

Data View  
Formsbuttons

## View Pane and Content Area

View  
Pane

The screenshot shows a web browser window displaying a data application. The left-hand pane is titled 'Forms' and contains a tree view with the following items: Verify BR, Income Statement, Target Setting, Standard Data Forms, Composite Verify App, Verify App, Verify Business Rules (highlighted), Verify Net Inc, and Verify Targets BR. Below this are several links for calculation and data forms. The main content area is a table with columns for months (Jan-Jul) and rows for various sales and COGS categories. The table is titled 'Page 220' and includes filters for 'N001', 'Budget', 'Draft 1', and 'FY08'. The table data is as follows:

	Jan	Feb	Mar	Apr	May	Jun	Jul
4000-100:Network Sales	62,429	59,307	59,932	61,730	59,878	60,476	57,453
4000-200:Chips Sales	11,803	11,213	11,331	11,671	11,321	11,434	10,862
4000-300:Computer Sales	104,657	99,424	100,470	103,484	100,380	101,384	96,315
4000-400:Application Sales	35,780	33,991	34,349	35,379	34,318	34,661	32,928
4000-500:Data Warehousing Sa	37,748	35,860	36,238	37,325	36,205	36,567	34,739
4000-600:eBusiness Sales	45,971	43,673	44,132	45,456	44,093	44,533	42,307
4000-700:OLAP Sales	16,538	15,711	15,876	16,352	15,862	16,020	15,219
-4000:Trade Sales	314,924	299,178	302,327	311,397	302,055	305,076	289,822
4100:Discounts & Allowances	9,448	8,975	9,070	9,342	9,062	9,152	8,695
-Net Sales:Total Net Sales	305,477	290,203	293,258	302,055	292,994	295,924	281,127
4200-100:Network COGS	37,457	35,584	35,959	37,038	35,927	36,286	34,472
4200-200:Chips COGS	6,492	6,167	6,232	6,419	6,226	6,289	5,974
4200-300:Computers COGS	66,980	63,631	64,301	62,091	60,228	60,830	57,789
4200-400:Applications COGS	22,899	21,754	21,983	21,227	20,591	20,797	19,757
4200-500:Data Warehousing COG	24,158	22,950	23,192	22,395	21,723	21,940	20,843
4200-600:eBusiness COGS	29,422	27,950	28,245	27,274	26,456	26,720	25,384

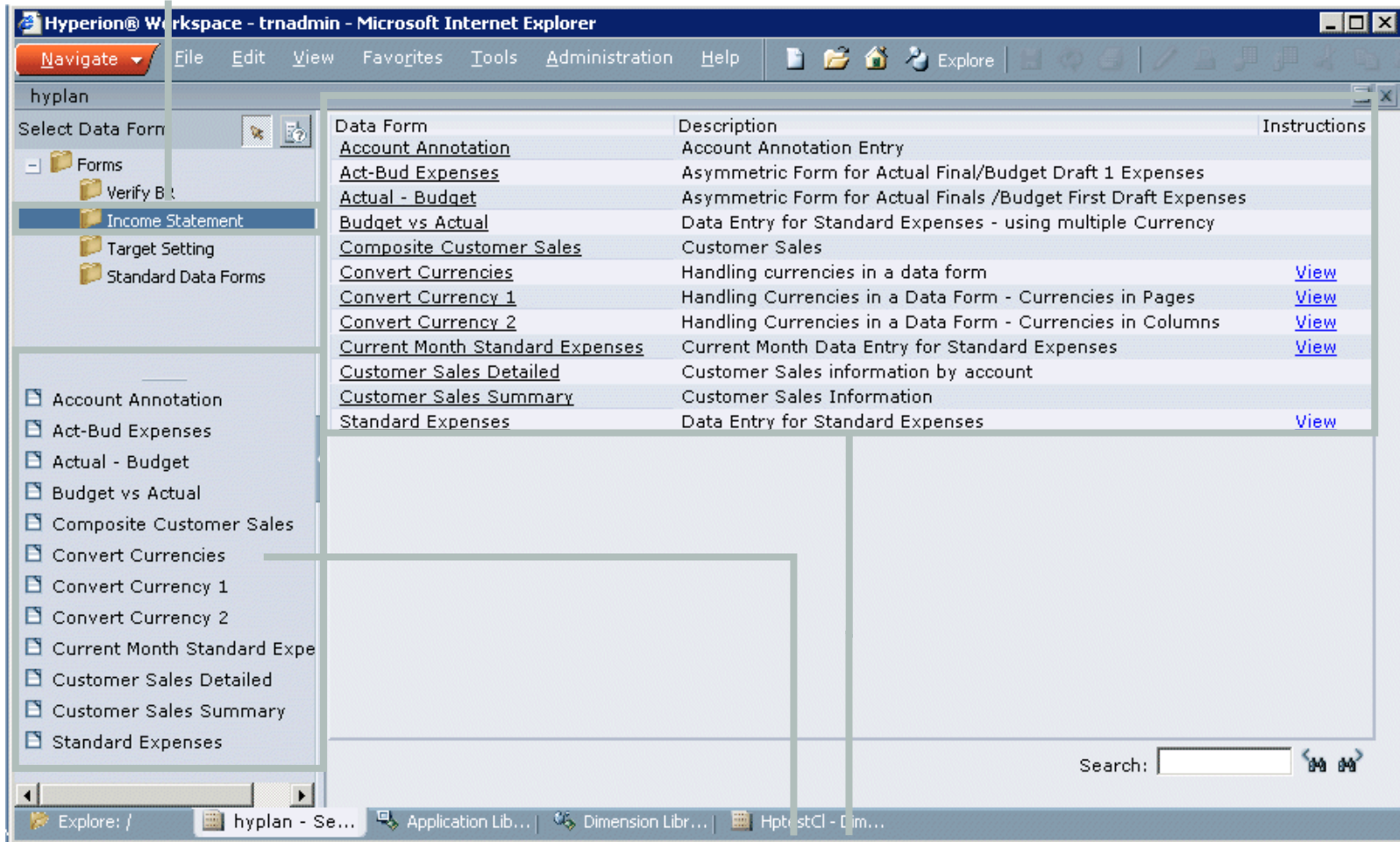
Business Rules

Content Area



# Opening Data Forms

Select Folder



The screenshot shows a web browser window titled "Hyperion@ Workspace - trnadmin - Microsoft Internet Explorer". The browser's address bar shows "hyplan". The main content area is titled "Select Data Form" and contains a table with the following data:

Data Form	Description	Instructions
<a href="#">Account Annotation</a>	Account Annotation Entry	
<a href="#">Act-Bud Expenses</a>	Asymmetric Form for Actual Final/Budget Draft 1 Expenses	
<a href="#">Actual - Budget</a>	Asymmetric Form for Actual Finals /Budget First Draft Expenses	
<a href="#">Budget vs Actual</a>	Data Entry for Standard Expenses - using multiple Currency	
<a href="#">Composite Customer Sales</a>	Customer Sales	
<a href="#">Convert Currencies</a>	Handling currencies in a data form	<a href="#">View</a>
<a href="#">Convert Currency 1</a>	Handling Currencies in a Data Form - Currencies in Pages	<a href="#">View</a>
<a href="#">Convert Currency 2</a>	Handling Currencies in a Data Form - Currencies in Columns	<a href="#">View</a>
<a href="#">Current Month Standard Expenses</a>	Current Month Data Entry for Standard Expenses	<a href="#">View</a>
<a href="#">Customer Sales Detailed</a>	Customer Sales information by account	
<a href="#">Customer Sales Summary</a>	Customer Sales Information	
<a href="#">Standard Expenses</a>	Data Entry for Standard Expenses	<a href="#">View</a>

The left-hand navigation pane shows a tree view with the following structure:

- hyplan
  - Select Data Form
    - Forms
      - Verify B...
      - Income Statement
      - Target Setting
      - Standard Data Forms
    - Account Annotation
    - Act-Bud Expenses
    - Actual - Budget
    - Budget vs Actual
    - Composite Customer Sales
    - Convert Currencies
    - Convert Currency 1
    - Convert Currency 2
    - Current Month Standard Expe...
    - Customer Sales Detailed
    - Customer Sales Summary
    - Standard Expenses

At the bottom right of the main content area, there is a search bar with the text "Search:" and a search icon.

Data Forms

## Summary

In this lesson, you should have learned to:

- Describe the user interface components
- Access Planning through Workspace
- Navigate Planning

# Lesson 3 – Dimension Overview



## Objectives

At the end of this lesson, you should be able to:

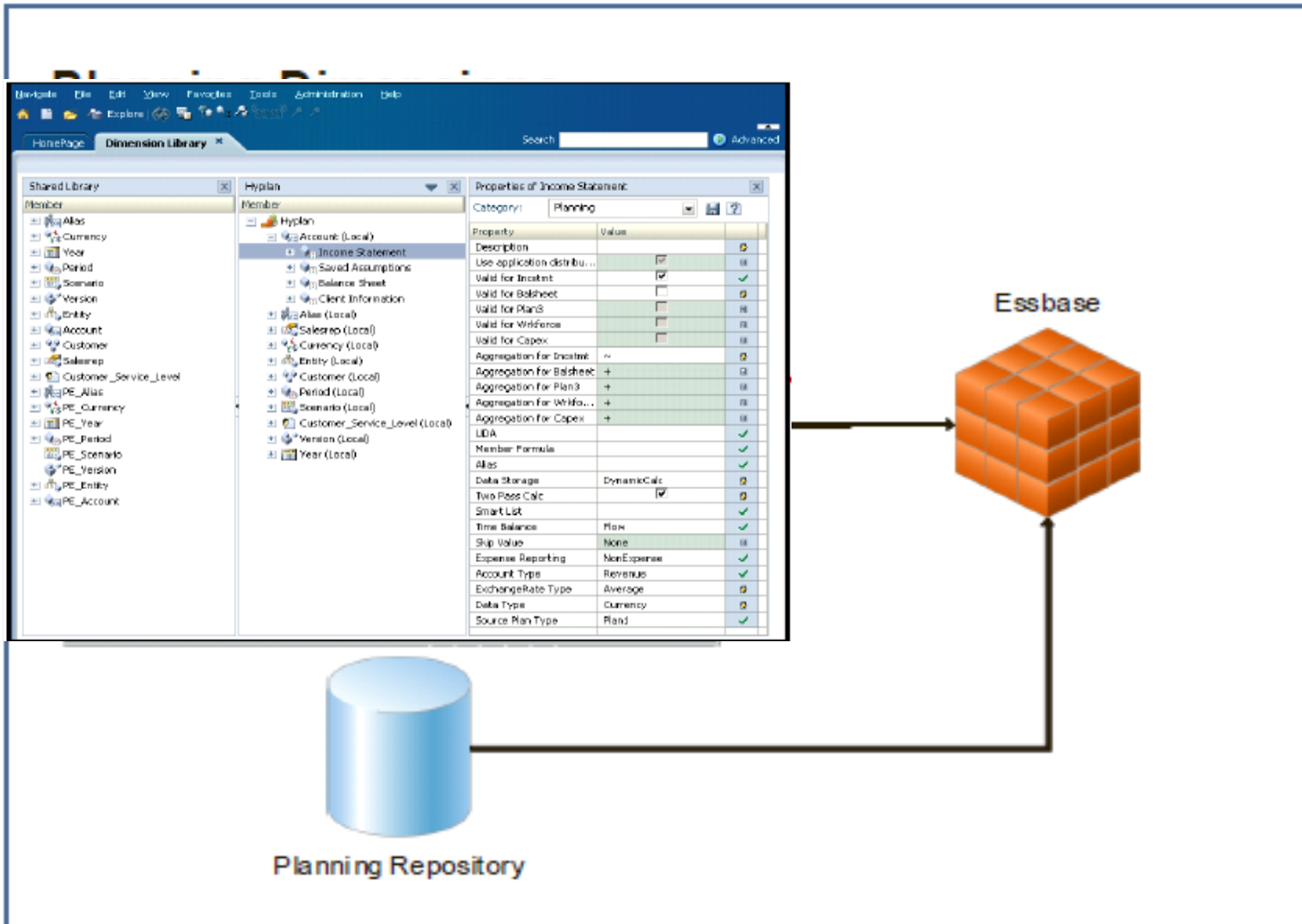
- Describe plan types
- Identify required dimensions
- Identify user-defined dimensions
- Describe dense and sparse dimensions
- Describe data block creation
- Set up aggregation, data storage, and calculation options



## Plan Types

- Essbase database created for each plan type
- Three customizable plan types
- Data sharing between plan types
- Set plan types for application views, dimensions and members







## Required Dimensions

### Six Required Dimensions\*

- Period
- Year
- Scenario
- Version
- Entity
- Account

### Other Dimensions

- Alias
- Smart Lists



\*multicurrency applications require two additional dimensions

- Currency
- HSP\_Rates





## User-Defined Dimensions

14 User-Defined Dimensions\*

For example:

- Employee
- Product
- Channel
- Project
- Customer



\*A Planning application can have a total of 20 dimensions. The number of user-defined dimensions available varies between multicurrency and noncurrency applications.



## Dense Dimensions

	Jan	Feb	Mar	-Q1	Apr	May	Jun	-Q2	Jul
5100 Salary Expense	235,578	204,752	206,947	627,210	213,156	211,791	206,829	605,746	198,267
5120 Commission Expense	21,557	20,478	20,696	60,791	21,216	21,676	20,883	62,875	19,809
5130 Advertising Expense	18,779	10,248	10,247	31,365	10,656	11,339	10,441	31,437	9,919
5210 Fringe Expense	28,779	10,248	10,247	31,365	10,656	11,339	10,441	31,437	9,919
5220 Payroll Taxes	26,188	15,389	15,823	47,040	15,997	15,997	15,882	47,186	14,879
5230 Airfare Expense	21,557	20,478	20,696	60,791	21,216	21,676	20,883	62,875	19,809
5240 Travel Other	1,845	864	1,266	3,105	#missing	#missing	#missing	#missing	#missing
5310 Office Expense	1,378	1,824	1,005	3,137	1,166	1,034	1,844	3,144	960
5320 Legal Fees	5,389	5,328	5,374	15,683	5,129	5,189	5,221	15,719	4,960
5330 Other fees	5,389	5,328	5,374	15,683	5,129	5,189	5,221	15,719	4,960
5340 Supplies	1,234	2,870	2,101	6,110	2,197	1,101	2,132	5,430	2,606
5350 Software Expense	#missing	#missing	#missing	#missing	#missing	#missing	#missing	#missing	#missing
-Tot Exp:Total Expense	312,564	296,788	300,365	909,657	308,110	298,770	303,758	908,538	286,670
5420 Allocaters In	#missing	#missing	#missing	#missing	#missing	#missing	#missing	#missing	#missing
5440 Allocaters Out	#missing	#missing	#missing	#missing	#missing	#missing	#missing	#missing	#missing
-Allocations	#missing	#missing	#missing	#missing	#missing	#missing	#missing	#missing	#missing

Dense Dimensions



## Sparse Dimensions

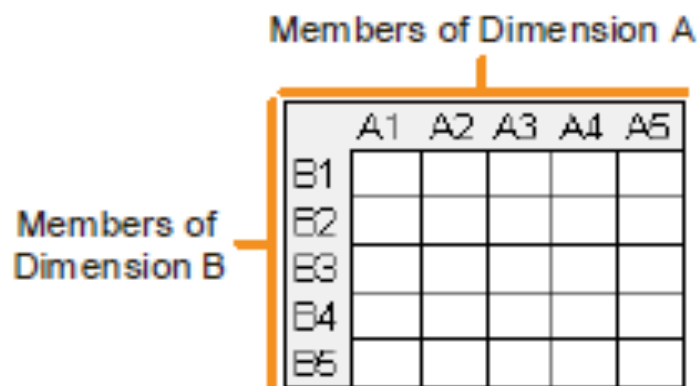
	Jan	Feb	Mar	-Q1	Apr	May	Jun	-Q2	Jul
5100: Salary Expense	215,570	204,792	286,947	627,313	212,456	206,764	288,029	626,746	199,267
5120: Commission Expense	21,557	20,479	28,695	62,731	21,326	20,676	28,683	62,875	19,839
5130: Advertising Expense	10,779	10,240	18,347	33,365	10,658	10,330	18,441	33,437	9,939
5210: Fringe Expense	10,779	10,240	18,347	33,365	10,658	10,330	18,441	33,437	9,939
5220: Payroll Taxes	16,460	15,269	15,021	47,848	15,007	15,507	15,662	47,154	14,879
5230: Airfare Expense	21,557	20,479	28,695	62,731	21,326	20,676	28,683	62,875	19,839
5240: Travel Other	1,065	964	1,206	3,195	#missing	#missing	#missing	#missing	#missing
5310: Office Expense	1,078	1,024	1,038	3,177	1,066	1,034	1,044	3,144	992
5320: Legal Fees	5,260	5,120	5,174	15,683	5,209	5,169	5,221	15,719	4,960
5330: Other Fees	5,260	5,120	5,174	15,683	5,209	5,169	5,221	15,719	4,960
5340: Supplies	3,234	3,072	3,104	9,418	3,197	3,101	3,132	9,431	2,976
5350: Software Expense	#missing	#missing	#missing	#missing	#missing	#missing	#missing	#missing	#missing
-Tot Exp./Total Expenses	312,564	296,700	388,305	900,657	300,010	290,770	381,700	900,538	296,670
5420: Allocations In	#missing	#missing	#missing	#missing	#missing	#missing	#missing	#missing	#missing
5440: Allocations Out	#missing	#missing	#missing	#missing	#missing	#missing	#missing	#missing	#missing
-Alloc/Allocations	#missing	#missing	#missing	#missing	#missing	#missing	#missing	#missing	#missing

Sparse Dimensions



## Data Block Creation

- Data is stored in data blocks.
- Data blocks are the cells formed by the intersection of selected dimension members.







## Determining the Number of Data Blocks in a Database

**Entity (Sparse)      Scenario (Sparse)      Year (Sparse)      Version (Sparse)**

Entity

-Corp

Scenario

-Budget

Year

-2007

Version

-1st Draft

-Final

**Account (Dense)      Period (Dense)**

Account

-Account1

-Account2

-Account3

Period

-Jan to Dec

Corp Budget 2007 1st Draft												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Account1												
Account2												
Account3												

Corp Budget 2007 Final												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Account1												
Account2												
Account3												

Each block contains 36 cells  
= (3 Accounts \* 12 Time Periods)



## Creating Data Blocks and Retrieving Data

- A data block is not created until data is input into a cell in the data block.
- Essbase checks to see whether the block exists.
- If a block does not exist, it is created.
- Data is retrieved by data block.



## Determining Data Structure and Performance of Data Blocks

- Performance is typically best if the cells that need to be calculated or viewed are in the same data block.
- Considerations for dense and sparse settings apply to calculations.
- The number of cells in a data block grows exponentially as dense dimensions are added to the data base.





## Selecting Aggregation, Storage, and Calculation Options

- Aggregation involves defining calculations based on relationships in the hierarchy.
- Storage options define how data is maintained in the database.
- Calculations are performed in a specified order.



## Selecting Aggregation Options

Define calculations in the hierarchy based on parent-child relations.

- Aggregation options
  - + Addition
  - - Subtraction
  - \* Multiplication
  - / Division
  - % Percentage
  - ~ Ignore

Net Income
Sales (+)
COGS (-)



## Selecting Data Storage Options

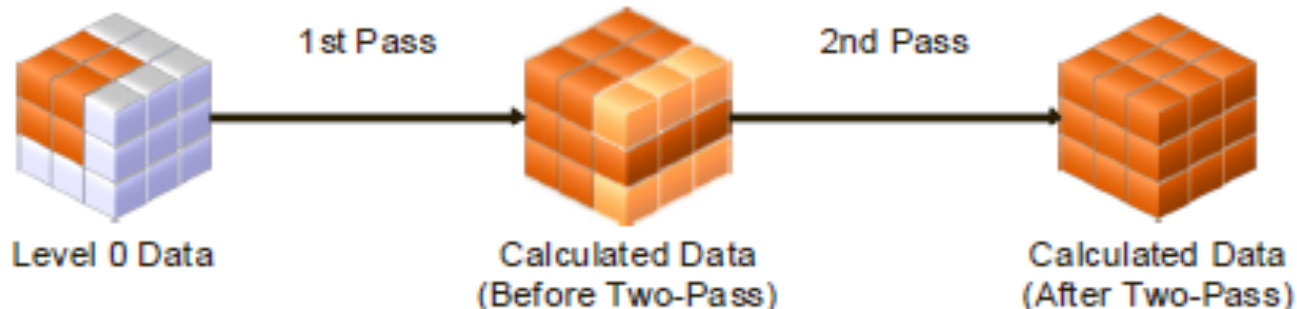
Use storage options to optimize performance and disk usage.

- Storage options
  - StoreData (default)
  - DynamicCalcAndStore
  - DynamicCalc
  - ShareData
  - NeverShare
  - LabelOnly

## Calculating Data

Essbase calculates the outline in the following order:

1. Account dimension
2. Time dimension
3. Other dense dimensions in top-down order
4. Other sparse dimensions in top-down order
5. Members that are tagged as Two-Pass Calculations





## Using Two-Pass Calculations

- Before Two-Pass

	Aspen	Diet Cola	Actual	
	January	February	March	Qtr1
Sales	326.70	113.74	137.94	578.38
COGS	84.00	22.00	28.00	134.00
Margin	242.70	91.74	109.94	444.38
Margin Percent	74.29	✓ 80.66	✓ 79.70	✓ 234.65 ✗



- After Two-Pass

	Aspen	Diet Cola	Actual	
	January	February	March	Qtr1
Sales	326.70	113.74	137.94	578.38
COGS	84.00	22.00	28.00	134.00
Margin	242.70	91.74	109.94	444.38
Margin Percent	74.29	✓ 80.66	✓ 79.70	✓ 76.83 ✓





## Summary

In this lesson, you should have learned to:

- Describe plan types
- Identify required dimensions
- Identify user-defined dimensions
- Describe dense and sparse dimensions
- Describe data block creation
- Describe aggregation, data storage, and calculation options

# Lesson 4 – Setting up System Dimensions

## Objectives

After completing this lesson, you should be able to:

- Describe Planning time periods
- Customize time periods
- Create Scenarios
- Create Versions
- Create Entity
- Create Accounts

## Time Periods Overview

The Year and Period dimensions represent time.

### You can:

- Add years
- Create new summary time periods or change the name of summary time periods
- Add or change the aliases
- Add up to 100 calendar years and 500 time periods to an application

### You cannot:

- Modify the Start Year after the application is deployed
- Reduce the number of years without creating a database
- Change the base time periods
- Delete a dimension after creation of the application

## Customizing Time Periods

You can customize summary time periods in these ways:

- Change the name
- Change the range
- Create new summary time periods
- Add or change the alias
- Add years and time periods

## Period and Year Dimensions

**Period**

Page 220 : Georgia Budget FY11 Draft 1 Go

	Q1	Q2	Q3	Q4	YearTotal
5100:Salary Expense	627,310	628,746	623,928	688,524	2,568,507
5120:Commission Expense	62,731	62,875	62,393	68,852	256,851
5130:Advertising Expense	31,365	31,437	31,196	34,426	128,425
5210:Fringe Expense	31,365	31,437	31,196	34,426	128,425
5220:Payroll Taxes	47,048	47,156	46,795	51,639	192,638
5230:Airfare Expense	62,731	62,875	62,393	68,852	256,851
5240:Travel Other	#missing	#missing	#missing	#missing	#missing
5310:Office Expense	3,137	3,144	3,120	3,443	12,843

**Year**

- [-] Period Time <2> (Never Share)
  - ... BegBalance (+) /\* Beginning balance
  - [-] YearTotal (+) <4>
    - + Q1 (+) <3> (Alias: Qtr 1)
    - + Q2 (+) <3> (Alias: Qtr 2)
    - + Q3 (+) <3> (Alias: Qtr 3)
    - + Q4 (+) <3> (Alias: Qtr 4)
- + HSP\_Rates <7> (Never Share)
- + Entity Country <2> (Never Share)
- + Customer <1> (Never Share) (Salesrep)
- [-] Year <6> (Never Share)
  - ... FY09 (~)
  - ... FY10 (~) /\* Year FY10 \*/
  - ... FY11 (~) /\* Year FY11 \*/
  - ... FY12 (~) /\* Year FY12 \*/
  - ... FY13 (~) /\* Year FY13 \*/
  - ... No Year (~) /\* No Year \*/

## Dynamic Time Series Members

Predefined DTS Member	Description
H-T-D	History-to-date
Y-T-D	Year-to-date
S-T-D	Season-to-date
P-T-D	Period-to-date
Q-T-D	Quarter-to-date
M-T-D	Month-to-date
W-T-D	Week-to-date
D-T-D	Day-to-date



## Setting Up Dynamic Time Series Members

Dynamic Time Series - Microsoft Internet Explorer

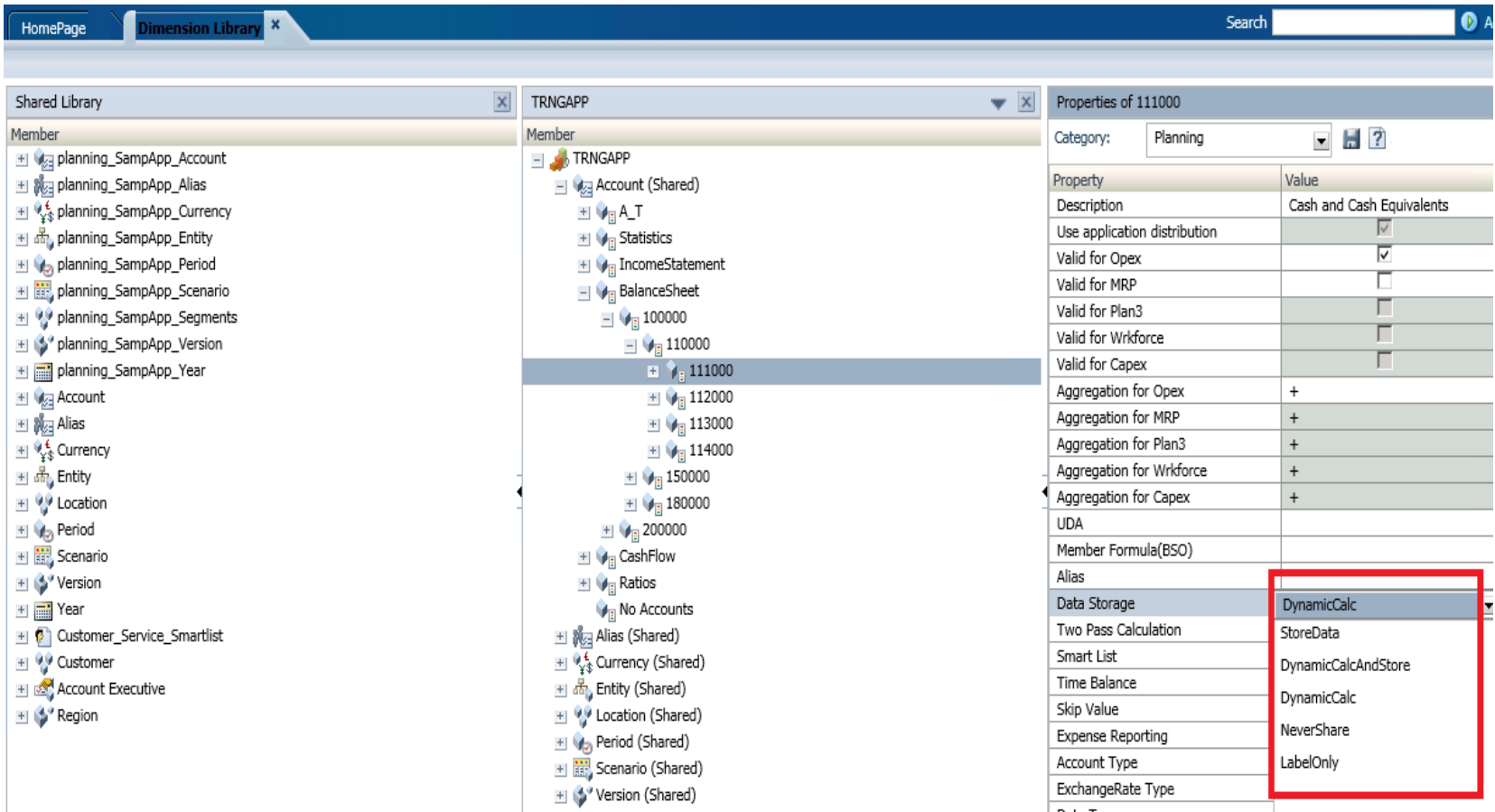
Series	Enabled	Generation	Alias Table	Alias Name
Y-T-D	<input type="checkbox"/>	unassigned	Default	
H-T-D	<input type="checkbox"/>	unassigned	Default	
S-T-D	<input type="checkbox"/>	unassigned	Default	
Q-T-D	<input type="checkbox"/>	unassigned	Default	
P-T-D	<input type="checkbox"/>	unassigned	Default	
M-T-D	<input type="checkbox"/>	unassigned	Default	
W-T-D	<input type="checkbox"/>	unassigned	Default	
D-T-D	<input type="checkbox"/>	unassigned	Default	

Help Refresh Save Cancel



# Choosing How Data Is Stored

The storage type for a member has a major impact on the size and calculation performance of your database.

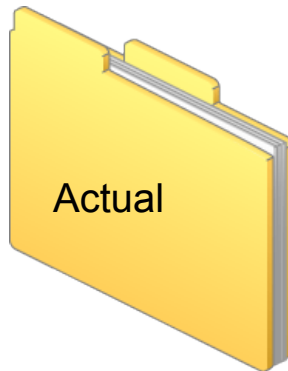


The screenshot shows the SAP Planning software interface. On the left, there is a 'Shared Library' pane with a tree view of members. The main area shows the 'TRNGAPP' member structure, with '111000' selected. On the right, the 'Properties of 111000' pane is open, showing various settings. The 'Data Storage' property is highlighted with a red box, and its dropdown menu is open, showing several options: 'DynamicCalc', 'StoreData', 'DynamicCalcAndStore', 'DynamicCalc', 'NeverShare', and 'LabelOnly'.

Property	Value
Description	Cash and Cash Equivalents
Use application distribution	<input checked="" type="checkbox"/>
Valid for Opex	<input checked="" type="checkbox"/>
Valid for MRP	<input type="checkbox"/>
Valid for Plan3	<input type="checkbox"/>
Valid for Wrkforce	<input type="checkbox"/>
Valid for Capex	<input type="checkbox"/>
Aggregation for Opex	+
Aggregation for MRP	+
Aggregation for Plan3	+
Aggregation for Wrkforce	+
Aggregation for Capex	+
UDA	
Member Formula(BSO)	
Alias	
Data Storage	DynamicCalc
Two Pass Calculation	StoreData
Smart List	DynamicCalcAndStore
Time Balance	DynamicCalc
Skip Value	NeverShare
Expense Reporting	LabelOnly
Account Type	
ExchangeRate Type	

## Scenario Dimension

The Scenario dimension specifies a data classification.



# Scenario dimension

**Dimensions**

Dimensions Performance Settings Evaluation Order

Dimension Scenario Search Name

Action Account Currency Entity Location Period Scenario Version Year

Name	Scenario (Default)	Description	Security	Start Period	Start Yr.	End Period	End Yr.	Exch. Table
Scenario		Scenario						

**Dimensions**

Edit Member : Forecast

Member Properties UDA Member Formula

Name Forecast

Description

Alias Table Default

Alias

Start Yr. FY11

Start Period Jul

End Yr. FY14

End Period Dec

Include BegBal as Time Period

Enabled for Process Management

Exchange Rate Table <None>

Data Storage Store

Two Pass Calculation

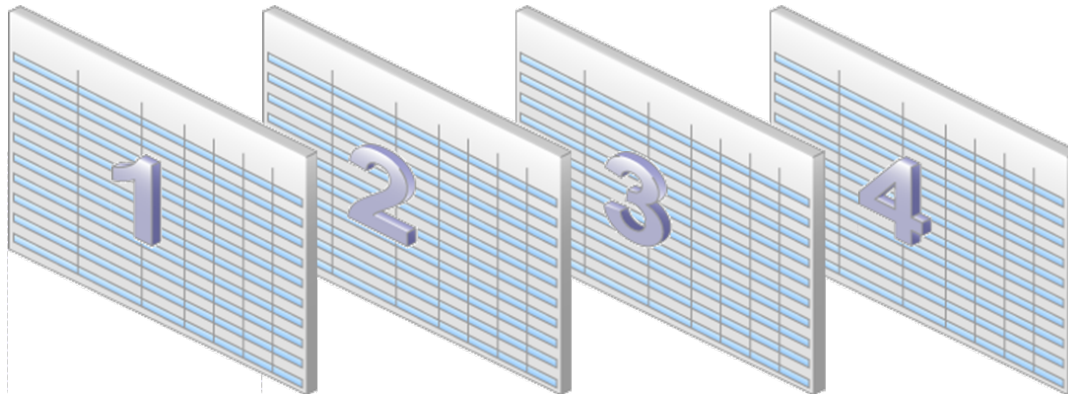
Plan Type Consol  Ignore

Data Type Unspecified

Smart Lists <None>

## Version Dimension

- Versions provide process flexibility by providing iterative planning cycles.
- Versions are independent of individual scenarios. For example, Preliminary and Final versions could be associated with any scenario.
- There are 2 version types:
  - Standard Bottom-Up
  - Standard Target



Dimensions

Dimensions				
Performance Settings				
Evaluation Order				
Dimension	Version	Sort	Descendants	Search
Action View				
Name	Alias (Default)	Description	Security	Type
[-] Version				
+ Working				Standard Bottom Up
+ Final				Standard Bottom Up
+ Target				Standard Target
+ Variance				Standard Bottom Up
+ BU Version_1				Standard Bottom Up

Member Properties	
UDA	
Member Formula	
Name	Final
Description	
Alias Table	Default
Alias	
Type	Standard Bottom Up
Enabled for Process Management	Standard Bottom Up
Data Storage	Standard Target
Two Pass Calculation	<input type="checkbox"/>
Plan Type	Consol <input checked="" type="checkbox"/> Ignore
Data Type	Unspecified
Smart Lists	<None>



## Entities Overview

- Entities allow you to model the flow of budget information through your organization.
- You can create an entity for each group or responsibility center that submits a plan for approval.
- You can assign plan types to entities.
- Entities can have a currency property.
  - If no currency is defined, the application default currency is used.
  - The entity's currency can be overwritten during data entry or data loads.

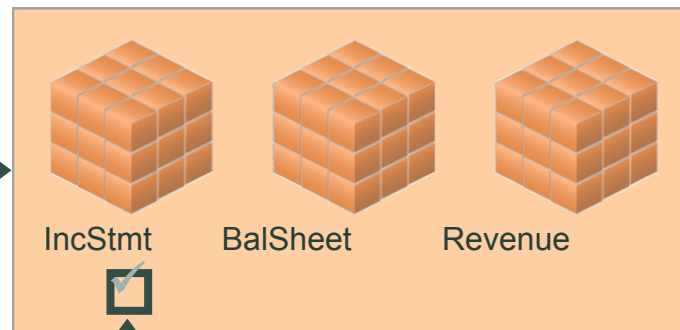
## Entity Members and Plan Types

- When you define an entity member you assign plan types.
- If you do not assign a plan type to a parent, its children do not have access to that plan type.

Data Form



Plan Types



Eastern US

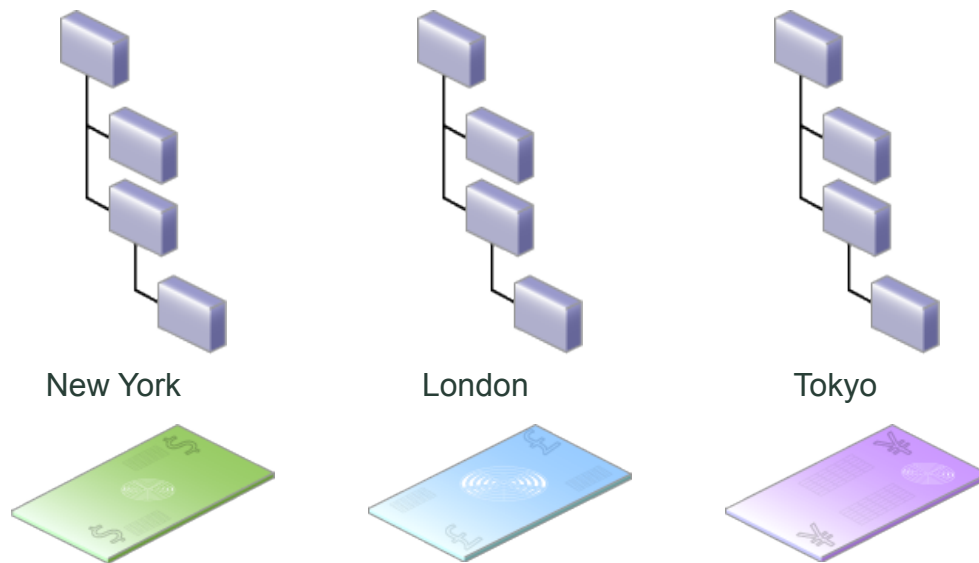
NY

FL

Assigned

## Identifying the Currency Value for Entities

The default currency is the currency that you specify when you create the application view.







## Adding and Modifying Entities

Hyperion® Planning – System 9  
Hyplan | admin none ORACLE | Hyperion

File Edit View Administration Tools Help

Dimensions

Folders  
Forms

Dimensions Performance Settings Evaluation Order

Entity Add Dimension Edit Dimension Sort: Descendants Search: Name

Expand Collapse Add Child Add Sibling Cut Paste Edit Delete Assign Access Custom Attributes Show Ancest

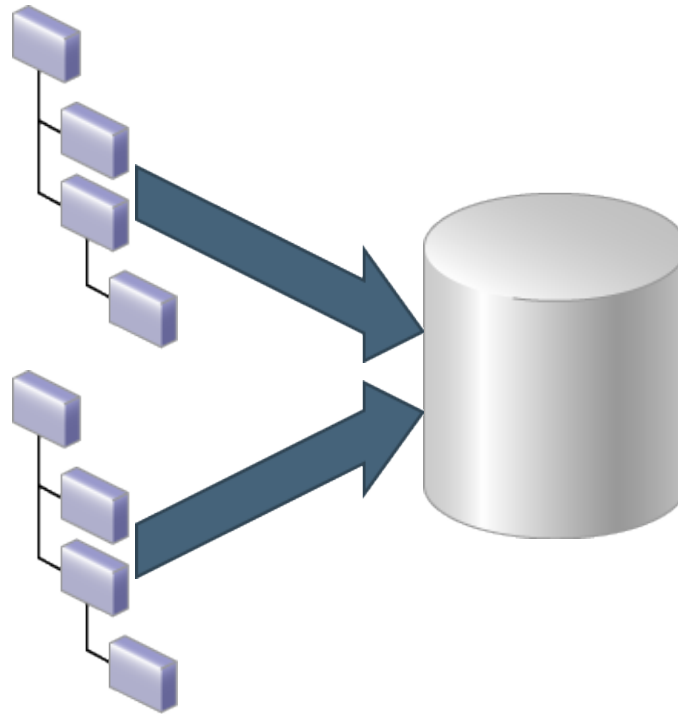
Name (52 Total)	Alias (Default)	Data Storage	Security	Attributes
Entity		Never Share		
Worldwide	Worldwide Location	Store	<a href="#">View</a>	
Headquarters	Corporate Headquarters	Store	<a href="#">View</a>	

Data Forms in Forms  
No forms available

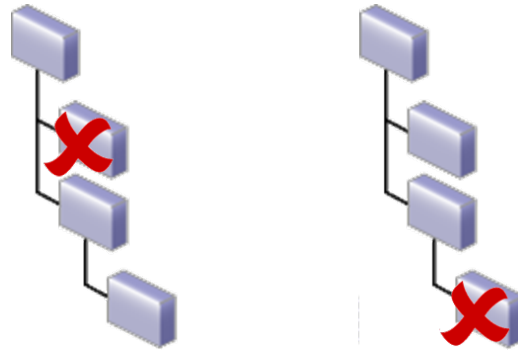
Page: 1 of 1 Go Start Prev Next End

## Saving Dimensions

Save changes to the relational database.



## Deleting Entities

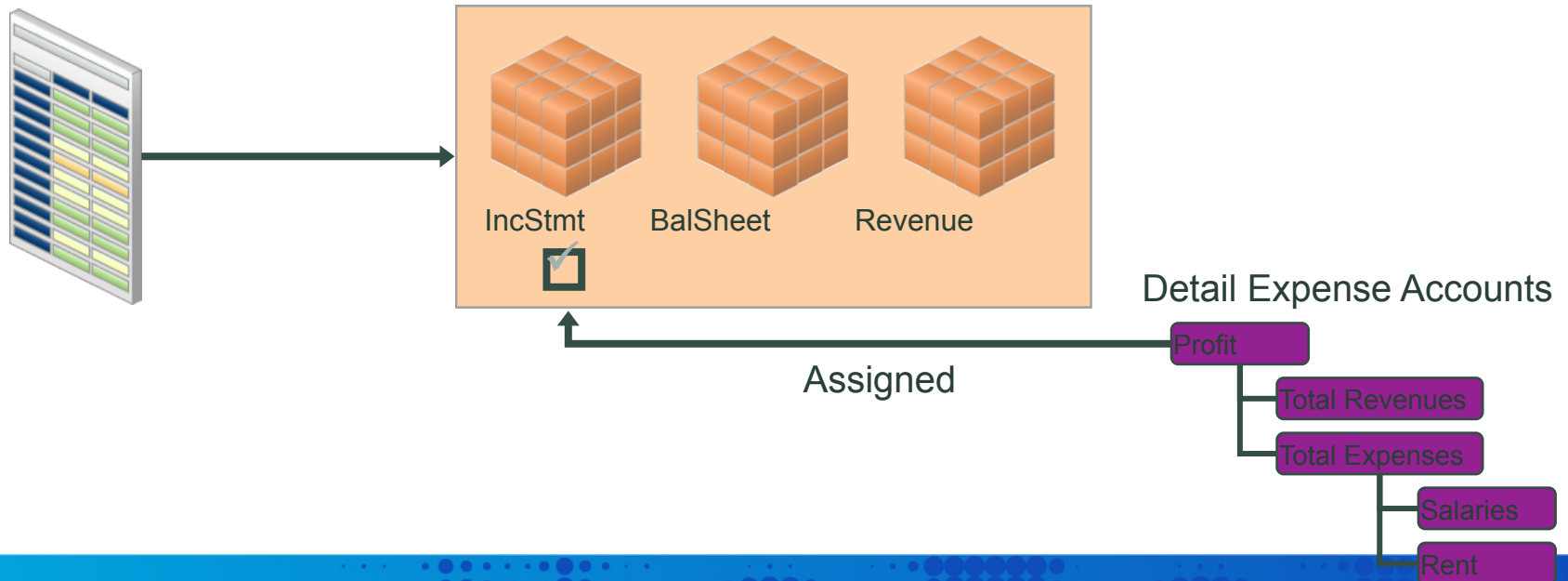


## Accounts Overview

- You assign plan types to accounts.
  - If more than one plan type is assigned to an account, designate a source plan type.
  - Other plan types pull their values from the source plan type.
- Use aggregation options to define calculations in the account hierarchy.

Data Form

Plan Types







## Account Types

Account Type	Variance	Time Balance	Skip	Exchange Rate Type	Currency Type
Expense	Expense	Flow	N/A	Average	Currency
Revenue	NonExpense	Flow	N/A	Average	Currency
Asset	NonExpense	Balance	None	Ending	Currency
Liability	NonExpense	Balance	None	Ending	Currency
Equity	NonExpense	Balance	None	Ending	Currency
Saved Assumption	NonExpense	User-defined	N/A	None	NonCurrency

# Time Balance Options

Flow and Balance examples

		 Jan	 Feb	 Mar	 Quarter 1
<div style="background-color: #800080; color: white; padding: 5px; border: 1px solid black;">Total Revenues</div>	Revenue	50	75	50	175
<div style="background-color: #800080; color: white; padding: 5px; border: 1px solid black;">Cash on Hand</div>	Asset	100	150	75	75

## Saved Assumptions

Use Saved Assumptions to:

- Centralize planning assumptions
- Identify key business drivers
- Ensure consistency across the application

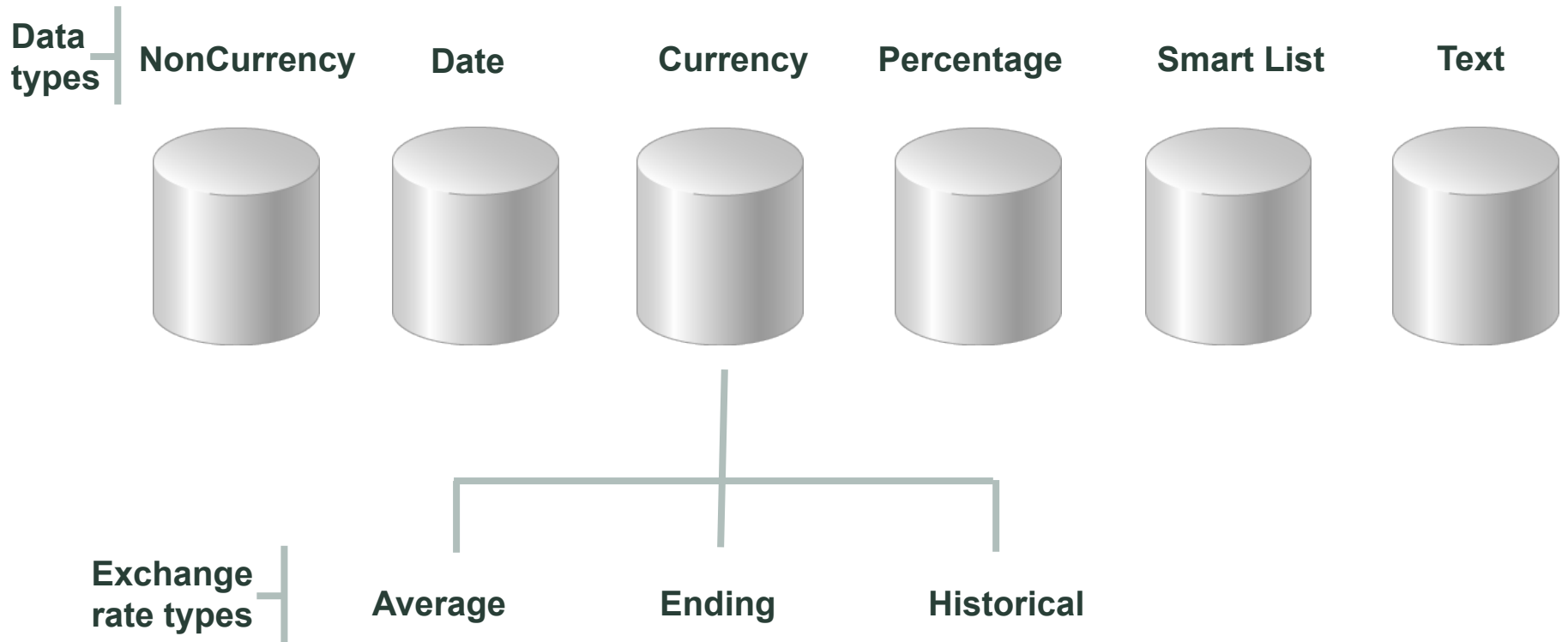
Examples of Saved Assumption accounts include:

- Headcount
- Square footage

Define business rules that reference these saved assumptions such as:

- Calculate office supplies by entity based on headcount
- Calculate facilities expense based on square footage per location

## Data Types and Exchange Rate Types





# Creating Account Hierarchies

Hyperion® Planning – System 9  
Hyplan | admin none

File Edit View Administration Tools Help

Dimensions

Folders

- Forms
  - Verify BR
  - Income Statement
  - Target Setting
  - Standard Data Forms

Data Forms in Income Statement

- Account Annotation
- Act-Bud Expenses
- Actual - Budget
- Budget vs Actual
- Composite Customer Sales
- Convert Currencies
- Convert Currency 1
- Convert Currency 2
- Current Month Standard Expens
- Customer Sales Detailed
- Customer Sales Summary
- Standard Expenses

Dimensions Performance Settings Evaluation Order

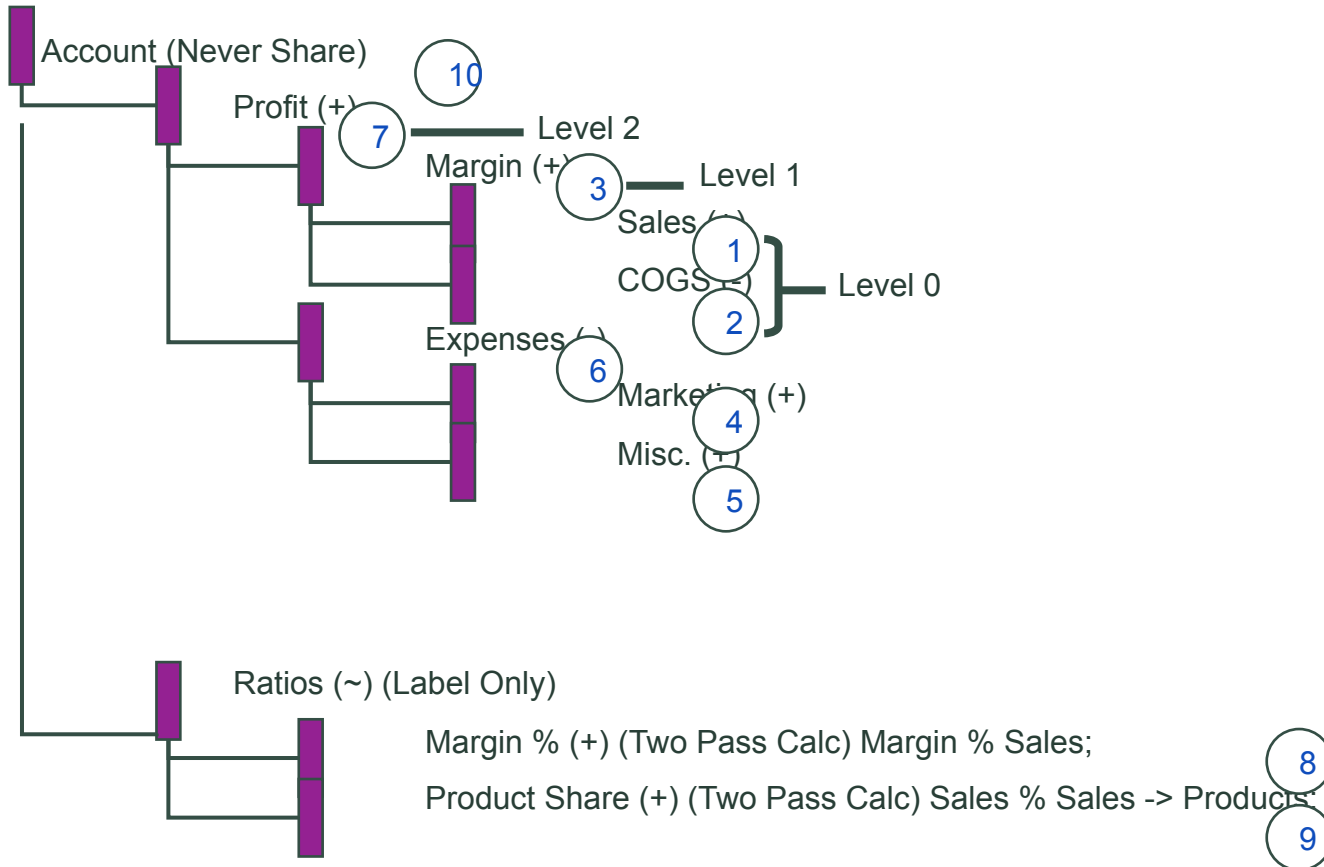
Account Add Dimension Edit Dimension Sort: Descendants Search: Name

Expand Collapse Add Child Add Sibling Cut Paste Edit Delete Assign Access Show Ancestors Show Usage

Name (Add Child)	Alias (Default)	Data Storage	Security	Attributes
Account		Never Share		
Income Statement		Label only	<a href="#">View</a>	
Saved Assumptions		Store	<a href="#">View</a>	
Client Information		Store	<a href="#">View</a>	
Balance Sheet		Label only	<a href="#">View</a>	
Total Assets		Dynamic Calc		
Total Current Assets		Dynamic Calc		
1100	Cash	Store		
1200	Account Receivable Third Parties	Store		
1210	Account Receivable Interco	Store		
1300	Inventories	Store		
Total Long Term Assets		Dynamic Calc		
Total LiabEquity		Dynamic Calc		

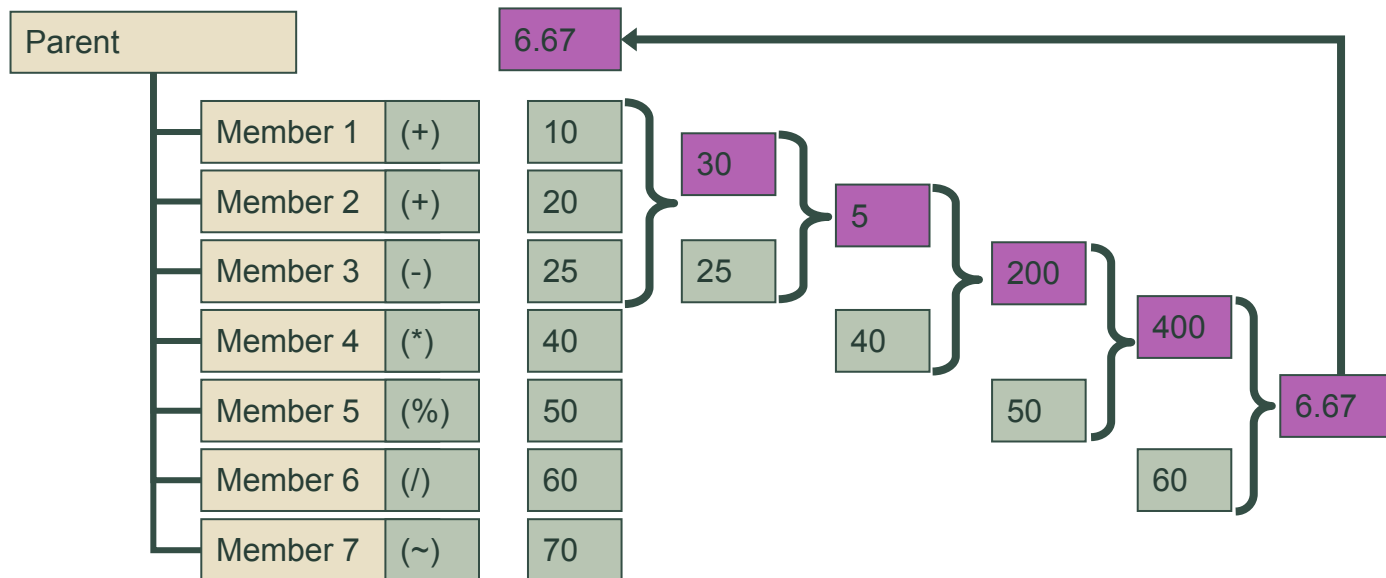
Page: 1 of 1 Go Start Prev Next End

## Consolidation Order



## Consolidation Order Example

- Consolidation order is defined by the order of members in the outline.
- Essbase calculates data in top-down order.





## Summary

In this lesson, you should have learned to:

- Describe Planning time periods
- Customize time periods
- Create Scenarios
- Create Versions
- Create Entities
- Create Accounts

# Lesson 5 – Create User Defined Elements

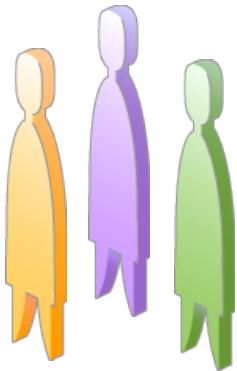
## Objectives

After completing this lesson, you should be able to:

- Create user-defined dimensions
- Create attributes and assign attribute values
- Describe member formulas
- Add member formulas
- Create Smart Lists

## User-Defined Dimensions

- User-defined dimensions require:
  - Unique values across databases
  - Plan types assigned at the dimension level



Customer

Hyperion® Planning - System 9  
Hyplan | admin none ORACLE | Hyperion

File Edit View Administration Tools Help

**Dimensions**

Folders

- Forms
  - Verify BR
  - Income Statement
  - Target Setting
  - Standard Data Forms

Data Forms in Income Statement

- Account Annotation
- Act-Bud Expenses
- Actual - Budget
- Budget vs Actual
- Composite Customer Sales
- Convert Currencies
- Convert Currency 1
- Convert Currency 2
- Current Month Standard Expens
- Customer Sales Detailed
- Customer Sales Summary
- Standard Expenses

Dimensions Performance Settings Evaluation Order

Customer Add Dimension Edit Dimension Sort: Descendants Search: Name

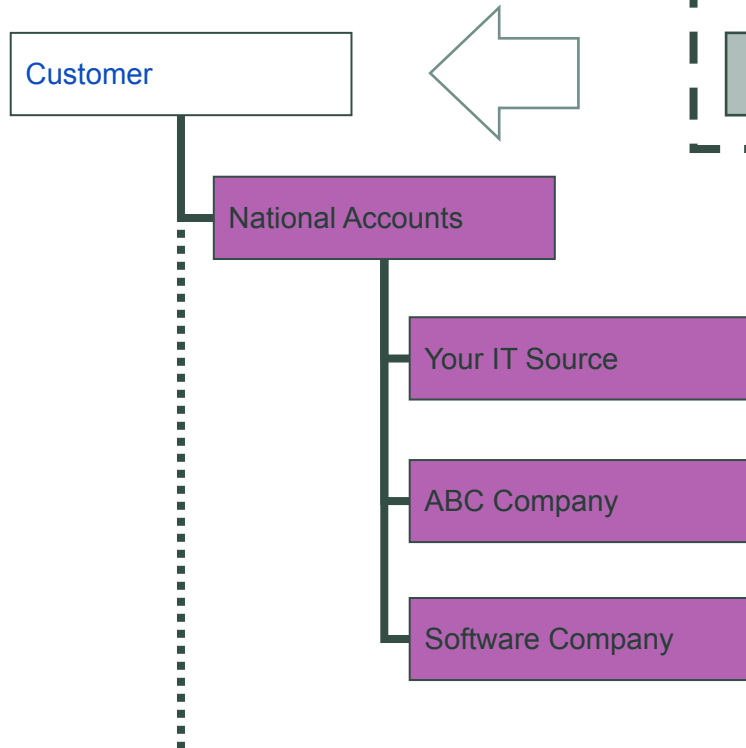
Expand Collapse Add Child Add Sibling Cut Paste Edit Delete Assign Access Custom Attributes Show Ancestors

Name (17 Total)	Alias (Default)	Data Storage	Security	Attributes
Customer		Never Share		
All Customers		Store	<a href="#">View</a>	
National Accounts		Store		
N001	Alliance Merchandise	Store	<a href="#">View</a>	<a href="#">View</a>
N002	Aspen National	Store		<a href="#">View</a>
N003	Computer Solutions	Store		<a href="#">View</a>
N004	Computers Etc.	Store	<a href="#">View</a>	<a href="#">View</a>
N005	Computer R Us	Store		<a href="#">View</a>
Distributors		Store		
Retail		Store	<a href="#">View</a>	
No Customer		Store		

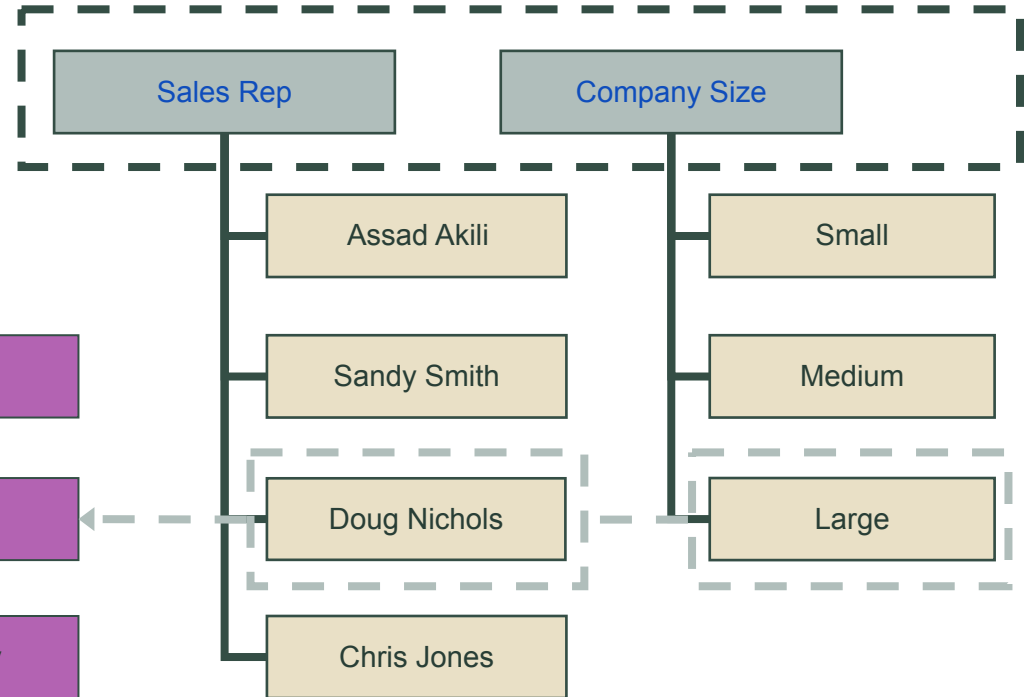
Page: 1 of 1 Start Prev Next End

# Attributes Overview

Base dimension



Attribute dimensions



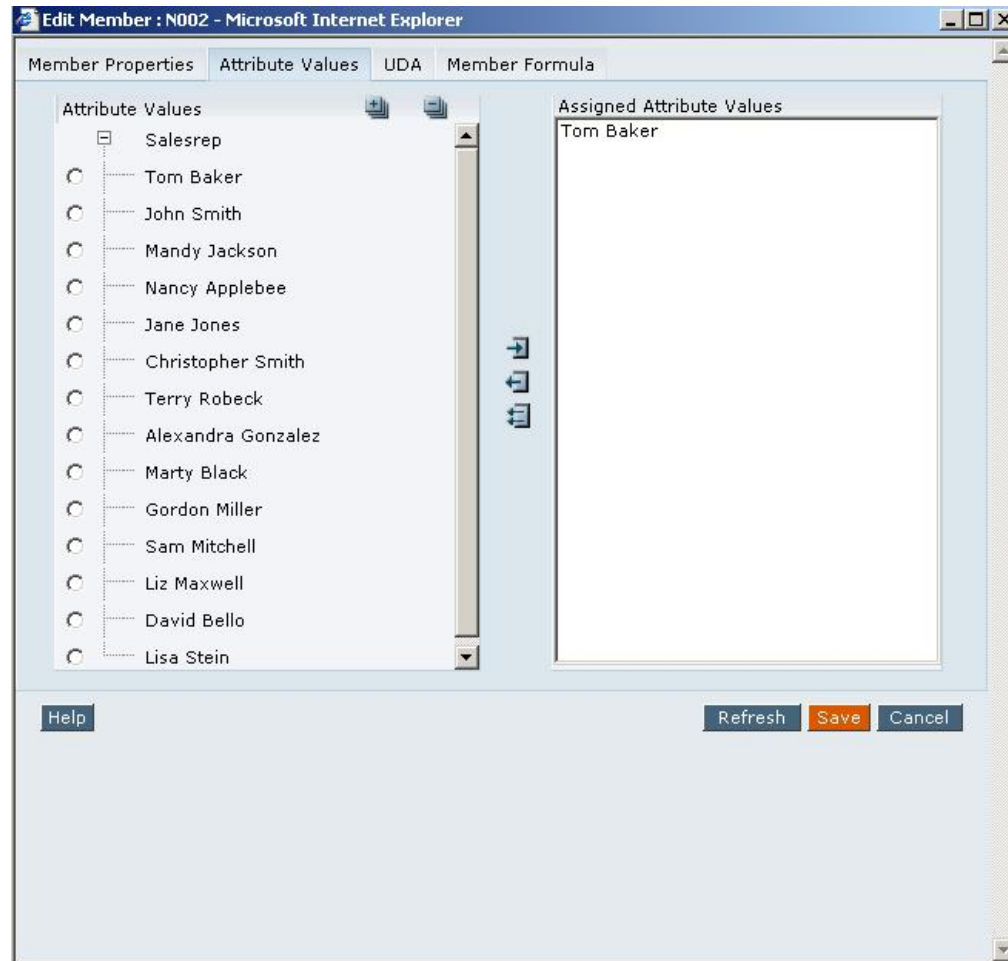


## Examples of Attribute Values

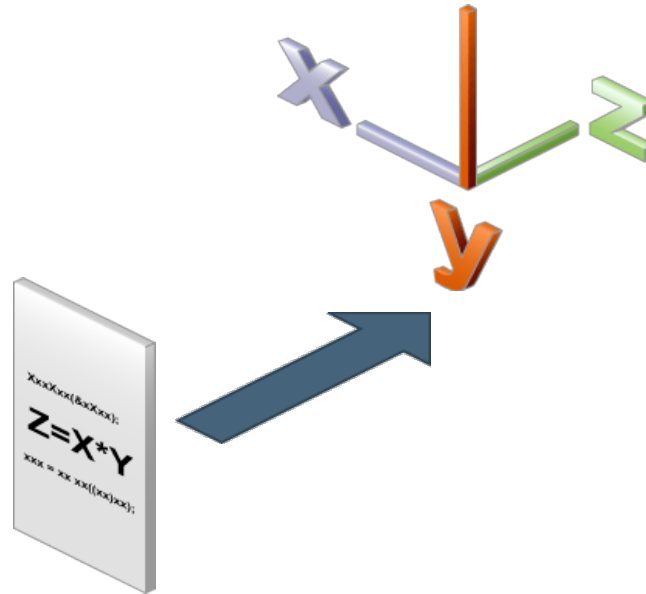
The following are examples of attributes and their possible values.

- Channel (Attribute of the Product dimension)
  - Retail
  - Catalog sales
- Size (Attribute of the Product dimension)
  - Small
  - Medium
  - Large
- Sales Rep (Attribute of the Customer dimension)
  - John Brown
  - Sandy Kennedy
- Region (Attribute of the Customer dimension)
  - East
  - South
  - West
  - North

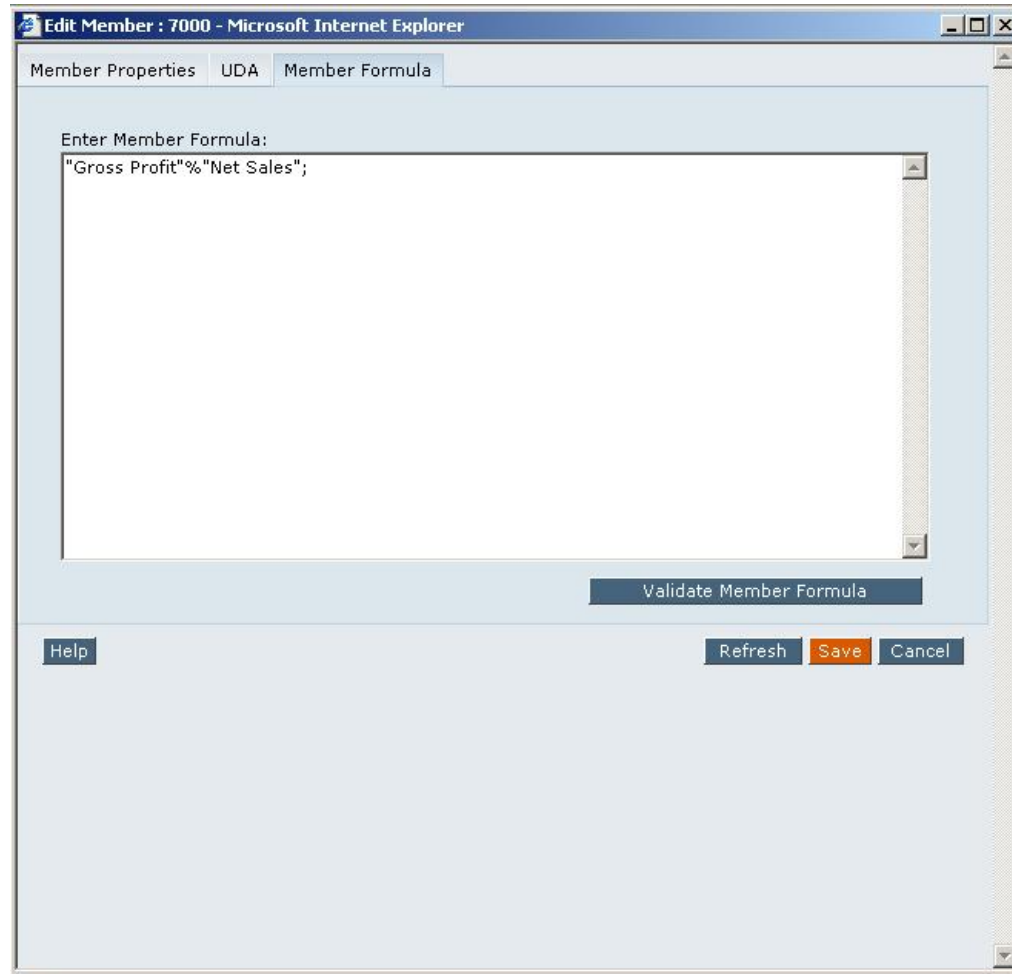
## Assigning Attribute Values



## Member Formulas Overview

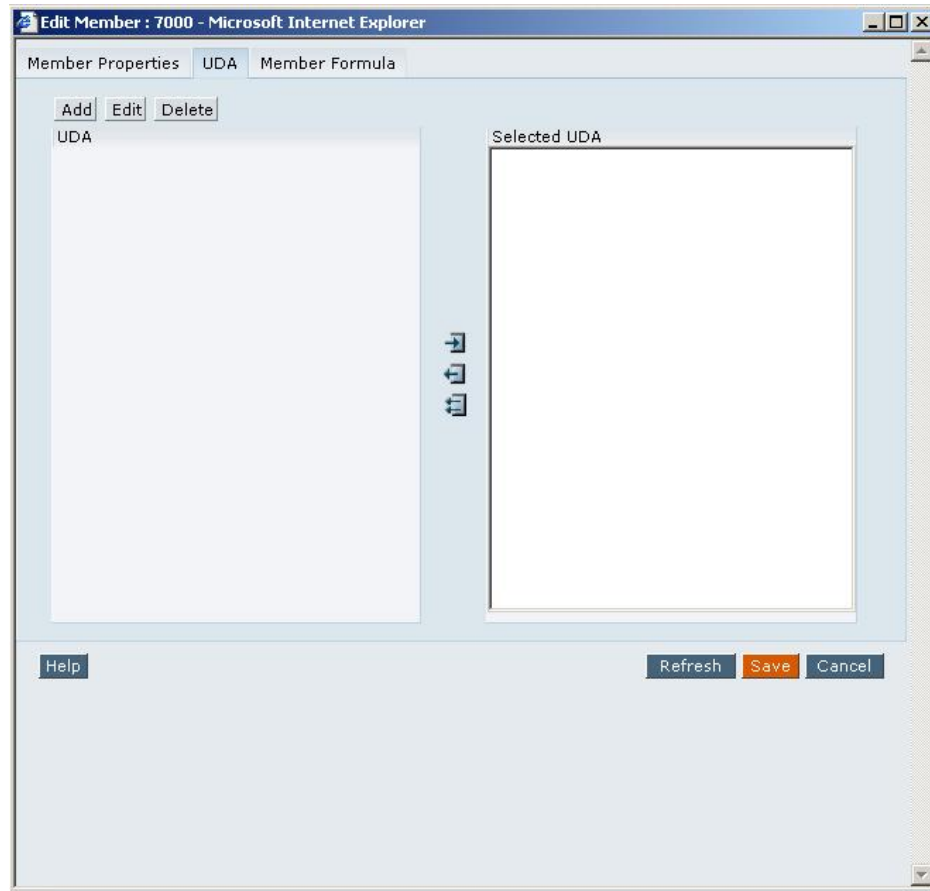


## Adding Member Formulas



Microsoft Internet Explorer window titled "Edit Member : 7000 - Microsoft Internet Explorer". The window has three tabs: "Member Properties", "UDA", and "Member Formula". The "Member Formula" tab is active. The main content area contains a text box with the label "Enter Member Formula:" and the text `"Gross Profit"% "Net Sales";`. Below the text box is a "Validate Member Formula" button. At the bottom of the window are buttons for "Help", "Refresh", "Save", and "Cancel".

## Adding User-Defined Attributes



## Smart Lists Overview

- Customer\_Service\_Class uses a smart list
- Network Sales, Chip Sales, and Computer Sales use data values

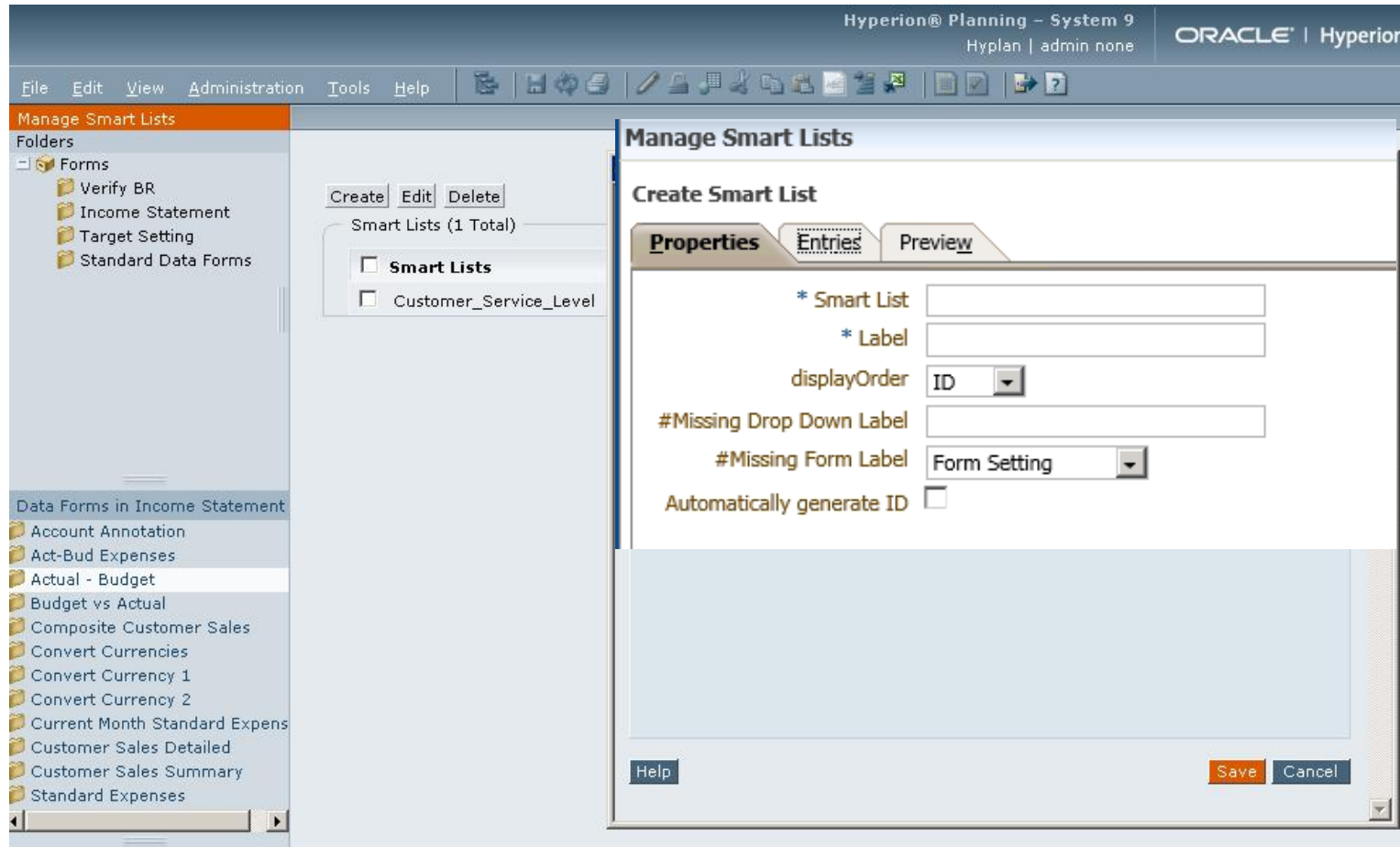
hyplan

Currency: Local Scenario: Budget Version: Draft 1 Year: FY08

Page New York Go

		Jan	Feb	Mar	=Q1	Apr	May	Jun	=Q2	Jul
N001	Network Sales	67,423.104	64,051.488	64,726.1798	196,201.232	66,667.9652	64,677.9262	65,314.6055	196,650.497	62,048.8752
	Chips Sales	12,747.294	12,109.293	12,237.4022	37,094.6255	12,604.5243	12,226.3885	12,348.6524	37,179.5653	11,731.2198
	Computer Sales	113,029.182	107,377.722	108,508.014	328,914.915	111,763.255	108,410.357	109,494.461	329,668.073	104,019.738
	Application Sales	38,642.184	36,710.748	37,096.4966	112,448.755	38,209.3915	37,033.1097	37,433.7408	112,706.242	35,562.0536
	Data Warehousing Sales	40,767.3	38,728.350	39,136.608	118,632.843	40,310.7062	39,113.3850	39,492.3985	118,904.490	37,517.7785
	eBusiness Sales	49,648.7880	47,166.486	47,662.8364	144,477.973	49,092.7215	47,629.9395	48,096.1393	144,808.800	45,691.3323
	OLAP Sales	17,860.5	16,967.475	17,146.08	51,974.055	17,660.4624	17,110.6485	17,301.9550	52,093.0655	16,436.8572
	=Trade Sales	340,118.352	323,112.434	326,513.617	989,744.404	336,309.026	326,119.755	329,481.953	992,010.735	313,007.855
	Customer Service Class	None	None	None	None	None	None	None	None	None
	Customer Since									
Order Contact Name										
	Network Sales	33,711.552	32,025.9744	32,363.0895	98,100.6163	33,333.9826				
	Chips Sales	6,373.64700	6,054.96465	6,118.70112	18,547.3127	6,302.26215	6,113.19428	6,174.32623	18,589.7826	5,865.60992

## Creating Smart Lists



The screenshot displays the Oracle Hyperion Planning interface. The main window title is "Hyperion® Planning – System 9" with the user "Hyplan | admin none". The "Manage Smart Lists" dialog box is open, showing the "Properties" tab. The dialog has three tabs: "Properties", "Entries", and "Preview".

**Manage Smart Lists**

**Create Smart List**

**Properties** | Entries | Preview

\* Smart List

\* Label

displayOrder ID

#Missing Drop Down Label

#Missing Form Label Form Setting

Automatically generate ID

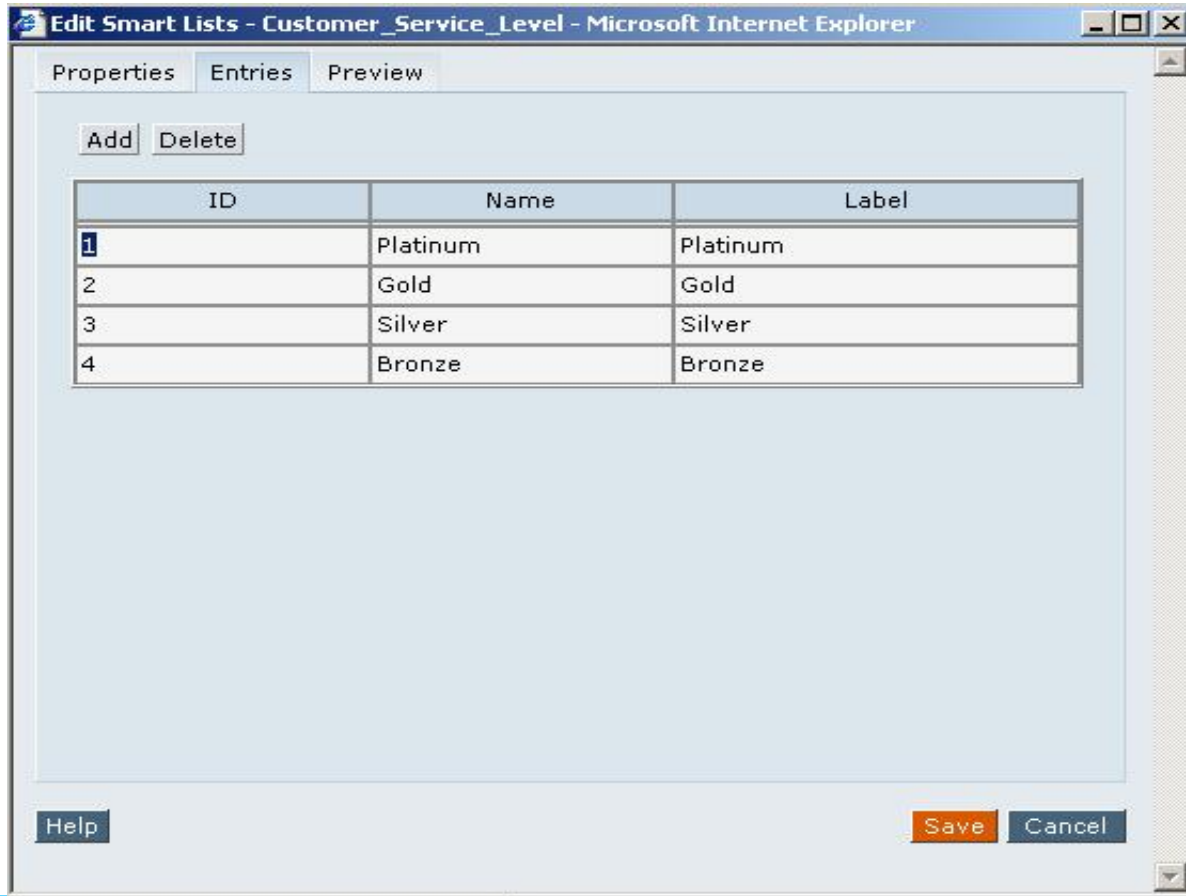
Buttons: Help, Save, Cancel

The background interface shows a "Manage Smart Lists" sidebar with a tree view of folders: Forms (Verify BR, Income Statement, Target Setting, Standard Data Forms) and Data Forms in Income Statement (Account Annotation, Act-Bud Expenses, Actual - Budget, Budget vs Actual, Composite Customer Sales, Convert Currencies, Convert Currency 1, Convert Currency 2, Current Month Standard Expens, Customer Sales Detailed, Customer Sales Summary, Standard Expenses).



# Modifying Smart Lists

## Smart List Value Properties



Properties Entries Preview

Add Delete

ID	Name	Label
1	Platinum	Platinum
2	Gold	Gold
3	Silver	Silver
4	Bronze	Bronze

Help Save Cancel



## Loading Metadata

**In Hyperion Classic Planning loading metadata can be achieved by making use of the following tools:**

- Oracle Data Integrator(ODI)
- Data Integration Management(DIM)
- Hyperion Application Link(HAL)

## Summary

In this presentation, you should have learned to:

- Create user-defined dimensions
- Create attributes and assign attribute values
- Describe member formulas
- Add member formulas
- Create Smart Lists

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