

# BIEE 11G 培训

## 主题: Essbase&BIEE

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编写日期: 2011-07-02  
版本: 1.0



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## BIEE – Essbase

- Essbase作为数据源
- BIEE 11g关于Essbase的关键特性
- 条件限制



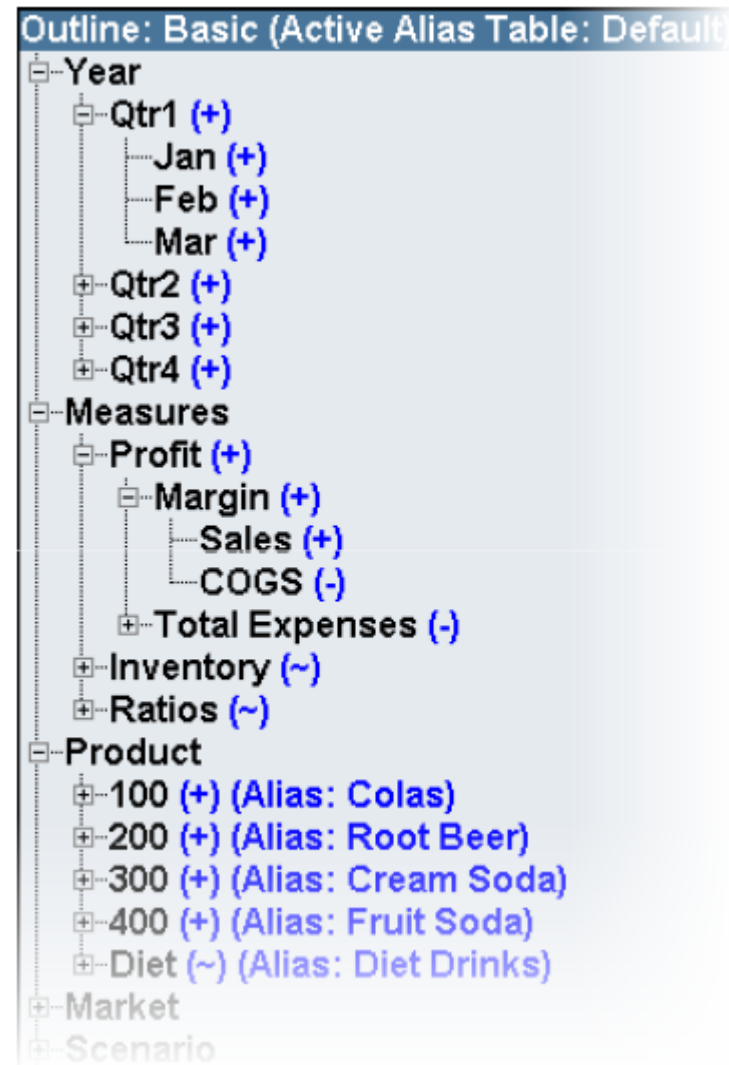
# BIEE – Essbase

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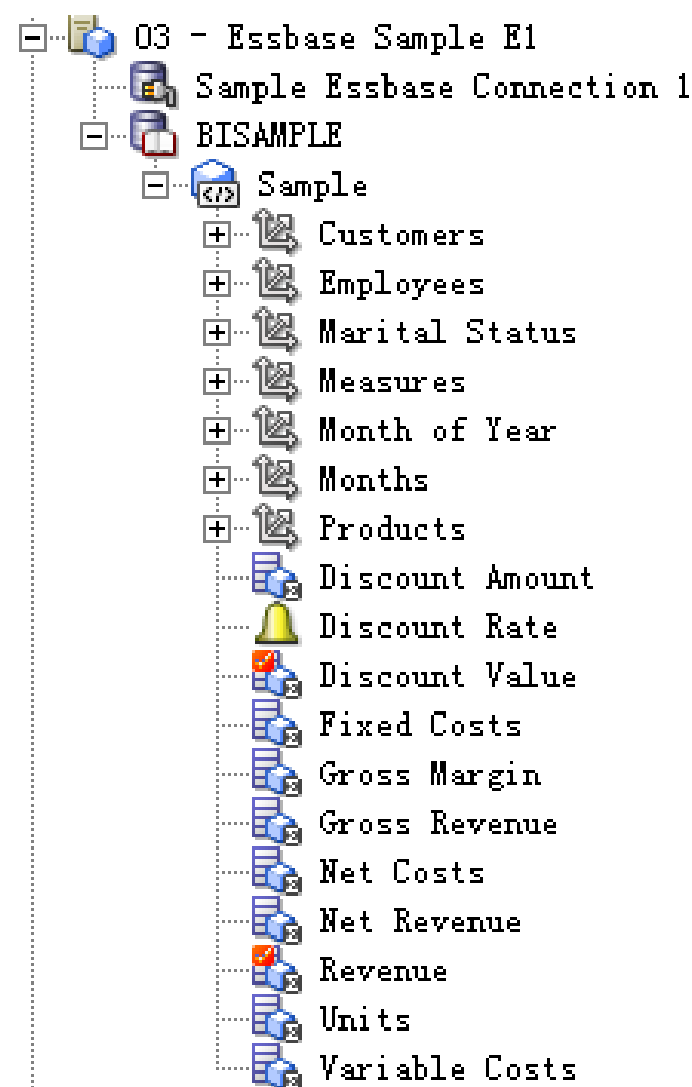
# BIEE - Essbase 元数据基本概念

- Outline (大纲)
- Members(成员)
- Generations and Levels (代与层次)
- Attribute Dimensions(属性维)
- User Defined Attributes(自定义属性)
- Alias Tables (别名表)
- Substitution Variables (替换变量)



# BIEE - Essbase 元数据基本概念

- Essbase物理层
  - 物理数据库对应Essbase Server Instance
  - 物理层文件夹对应Essbase应用名称
  - 物理层Cube对应Essbase cube
- 逻辑层只需要简单的拖拽
  - 层次根据Cube 结构自动生成





# BIEE - Essbase MDX

- MDX 是标准的多维数据库查询语言
- MDX提供了一个独特的语法来访问多维数据源
- Oracle BIEE 自动生成它支持的MDX语言

```
----- Sending query to database named 10.143.126.209 (id: <<9590>>):
with
  set [Geography2] as '[Geography].Generations(2).members'
  set [Products2] as 'Filter([Products].Generations(2).members, ([Products].currentmember.MEMBER_ALIAS
= "All Merchandise" OR [Products].currentmember.MEMBER_Name = "All Merchandise"))'
  set [Products3] as 'Generate([Products2], Descendants([Products].currentmember, [Products].Generations(3), leaves))'
select
  { [Measures].[Units],
    [Measures].[Returns]
  } on columns,
  NON EMPTY {crossjoin ({[Geography2]},[Products3])} properties ANCESTOR_NAMES, GEN_NUMBER on rows
from [ASOsamp.Sample]

+++Administrator:2b0000:2b000c:---2008/01/14 12:11:37
----- Query status: successful completion
```



# BIEE – Essbase

- Essbase作为数据源
- **BIEE 11g关于Essbase的关键特性**
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# BIEE - Essbase 关键特性

ORACLE Business Intelligence  
Regional Profit and Sales

Home | My Dashboard | Shared Dashboards | Catalog | Settings | Help | Logout

Criteria Results Prompts Advanced

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
- Tile

Pivot Table

View

2001

	All Products		Accessory Division		Audio Division	Video Division
	Costs	Sales	Costs	Sales	Costs	Sales
World	1,500	3,060	900	1,020		
Africa	300	600	100	200		
Americas	300	680	100	155		
Brazil	30	90	10	10		
Canada	30	120	10	20		
USA	150	300	50	100		
Asia	300	600	100	200		
Australia	300	600	100	200		
Europe	300	600	100	200		

Selections

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Fusce eu lacus sed diam...

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...

**Key 11g Features**

- Hierarchy / Member Browsing
- Dimensional Columns in Pivot Tables
- Outline Total Drilling
- Member Selection (Query Steps)
- Calculated Items
- Custom Groups
- Support for relational and multidimension sources
- Optimized for Essbase





# BIEE - Essbase 配置

- 如果需要，最好安装Essbase客户端在BI Server 和 Admin tool 机器上
  - 检查操作系统与客户端是否一致(32bit ,64bit)

- 检查bi\_init.cmd是否配置正确

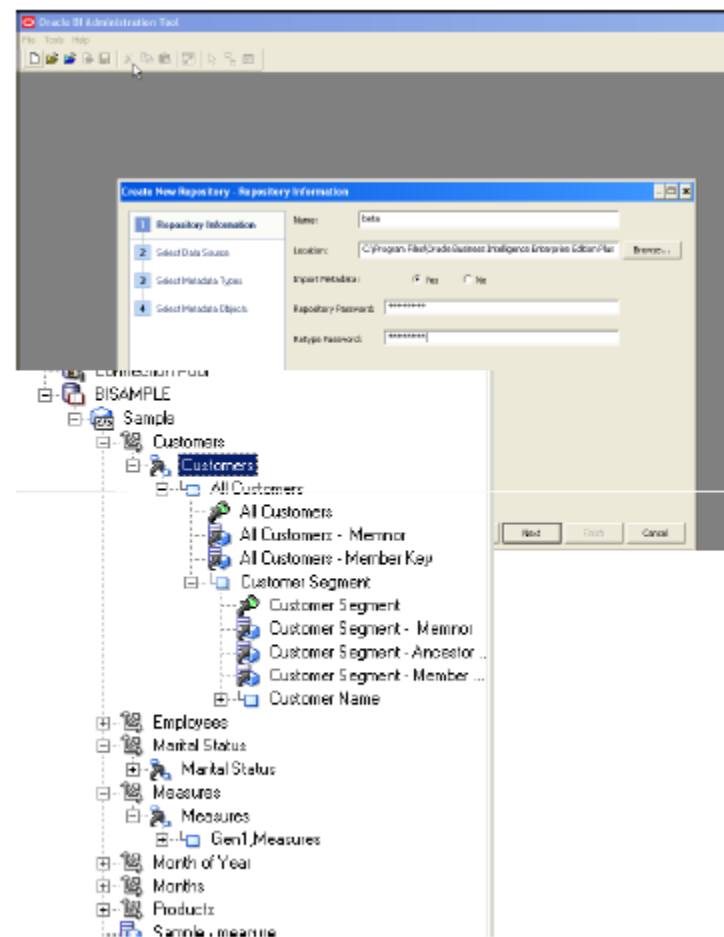
```

文件地址： E:\biee11\instances\instance1\bifoundation\OracleBIApplication\coreapplication\setup
@echo off
set ORACLE_HOME=E:\biee11\Oracle_BI1
set ORACLE_INSTANCE=E:\biee11\instances\instance1
set ORACLE_BI_APPLICATION=coreapplication
set JAVA_HOME=E:\biee11\jrockit_160_17_R28.0.0-679
set ESSBASEPATH = E:\biee11\Oracle_BI1\clients\epm\Essbase\EssbaseRTC
call
    %ORACLE_INSTANCE%\bifoundation\OracleBIApplication\ %ORACLE_BI_APPLICATION%\setup\
    user.cmd
if NOT "%1" == "" set COMPONENT_NAME=%1
set
PATH=%ESSBASEPATH%\bin;%ORACLE_HOME%\common\ODBC\Merant\5.3\Drivers;%ORACLE_HO
ME%\bifoundation\server\bin;%ORACLE_HOME%\bifoundation\web\bin;%ORACLE_HOME%\bin;
%PATH%
if "%2" == "" start
  
```

# BIEE - 业务模型配置

- 聚合规则
- 排序规则
- 属性维的列

.....



# BIEE - 联合查询

- 支持Essbase与关系数据库进行联合查询

F11 Rev. (Mago)			
Columns	Types	Length	Nullable
Cust_Key	INT	0	False
Revenue	DOUBLE	0	False
Order_Number	INT	0	False
Bill_Day_Dt	DATE	0	False

Sample	
Columns	Types
Sample - measure	DOUBLE
Gen1,Measures	VARCHAR
Gen1,Measures - Memnor	INT

复杂联接 - Sample\_F11 Rev. (Mago)

Name: Sample\_F11 Rev. (Mago)

表(T): Sample ...

表(A): F11 Rev. (Mago) ...

列(C):

名称	运算符(P)
Gen3,Calendar - Ancestor Ref	=
Gen3,Calendar - Memnor	
Gen3,Calendar - Member Key	
Gen4,Calendar	

列(Q):

名称
Revenue
Bill_Day_Dt
Order_Day_Dt
Prod_Key

驱动表(D): 无 类型(Y): 内部

基数(R)

☐ N ☐ 0,1 ☐ 1 ☒ 未知 ☐ 1 ☐ 0,1 ☐ N ☒ 未知

提示(I):

表达式(E): "04 - Essbase Sample E2 (Default Import)", "BISAMPLE", "", "Sample", "Gen3,Calendar - Member Key" = "01 - Sample App Data (ORCL)", "Catalog", "BISAMPLE", "F11 Rev. (Mago)", "Bill\_Day\_Dt"

确定 取消 帮助(H)



# BIEE – Essbase

- Essbase作为数据源
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## BIEE - 条件限制

- Admintool/BI Server 目前还不支持的功能
  - Calc Scripts
  - APS Clusters
  - Essbase Security Filters
  - Text/Date Measures
  - Essbase Level-based references
  - Attribute Calculation Dimensions



## BIEE - 条件限制

- Answer和Essbase 目前还不支持的功能
  - Calc Scripts
  - Subsets (UDA, Gen/Lev, and Attributes)
  - EIS Drill Through / Linked Reporting Objects
  - Different Drill Options
  - Show member name or alias
  - Display Parent First/Last
  - Edit data/Run calc scripts
  - Switch between alias tables



# Question Time!

# Q & A

## Questions & Answers

# Thank You !



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