Oracle BI 12.2.1 New Features

IOUG BIWA SIG TechCast

November 20, 2015

Dan Vlamis
Vlamis Software Solutions
816-781-2880
http://www.vlamis.com
Oracle BI 12.2.1 New Features Agenda

• IOUG, BIWA and Vlamis background
• Agenda for reviewing features:
  • Lots of new features – mostly demo
  • More information (Q&A)
• Use Questions or Chat or Questions to communicate
  www.vlamis.com
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BIWA Summit 2016, Jan 26-28

Oracle HQ Conference Center

Business Intelligence, Warehousing and Analytics and Spatial

IOUG Special Interest Group

www.biwasummit.org
Vlamis Software founded in 1992 in Kansas City, Missouri
Developed more than 200 Oracle BI systems
Specializes in ORACLE-based:
  - Data Warehousing
  - Business Intelligence
  - Data Mining and Predictive Analytics
  - Data Visualization
Expert presenter at major Oracle conferences
Conference chair for BIWA Summit 2014 - 2016
www.vlamis.com (blog, papers, newsletters, services)
Co-author of book “Data Visualization for OBI 11g”
Co-author of book “Oracle Essbase & Oracle OLAP”
Oracle University and Gold Partner
Beta tester for OBIEE 11g & 12c
## Month of IOUG BIWA Techcasts

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More information and sign up at [www.vlamis.com/papers2015/#novdec](http://www.vlamis.com/papers2015/#novdec)
OBIEE Major Releases

• 11.1.1.3 (August 2010)
  • Huge release with major new functionality
• 11.1.1.5 (May 2011)
  • BIWA TechCast May 25: Oracle BI 11.1.1.5 Released - Changes and New Features
  • Platform for BI Apps 7.9.6.3 to migrate to OBIEE 11g
  • Introduction of BI Mobile (iPad only)
  • OLAP integration
  • 64-bit Admin Tool, separate install
• 11.1.1.6 (February 2012)
  • BIWA TechCast Feb 29: Oracle BI 11.1.1.6 New Features
  • Platform for Exalytics (announced Oct 2011)
  • TimesTen integration
  • New features mostly for Exalytics
• 11.1.1.6.2 and 11.1.1.6.2 BP1 (May 2012 and June 2012)
  • BIWA TechCast Aug 1: Oracle BI 11.1.1.6.2 BP1 New Features
  • BI Mobile rewrite
  • Trellis Views
• 11.1.1.7 (April 2013)
  • BIWA TechCast Apr 5 Oracle BI 11.1.1.7 New Features
  • Freeze headers/scroll bars for tables and pivot tables
  • View and manipulate BI content in SmartView in Excel and enhanced export
  • New Oracle R Enterprise (ORE) integration and capabilities
• 11.1.1.9 (May 2015)
  • BIWA TechCast Jun 4, 2015 Oracle BI 11.1.1.9 New Features IOUG BIWA SIG TechCast
  • Control # decimal places on scores in OSSM
  • Search in Subject Areas pane
  • New Treemap view
  • Global variables and Save Column As choice in Criteria tab
• 12.2.1 (October 2015)

Prior release presentations at www.vlamis.com
12.2.1 End-User Enhancements

- Alta UI skin focuses on content – clean page design
- Redesigned classic BI home page – consistent with other Oracle products
12.2.1 End-User Enhancements

12.2.1 End-User Enhancements

- Data mashup capabilities – no RPD modifications

Add your own data files

Example: Upload a File

Access your data directly from an analysis w/o any RPD dependencies
Demonstration of Visual Analyzer
12.2.1 End-User Enhancements

• Enhanced subject area pane – including search through metadata

• Right-click all graphs and cells
12.2.1 End-User Enhancements

- Improved view rendering using HTML 5 – including new Heat Matrix view type
### 12.2.1 End-User Enhancements

- Improved methods of creating groups, calculated items and measures

![New Calculated Measure](image1.png)

**Insert Function**

- **Forecast**
- **Period Rolling**
- **To Date**
- **Analytics**
- **Cluster**
- **Evaluate Script**
- **Outlier**
- **Regr**

**Subject Areas**

- A - Sample Sales
  - Time
  - Products
  - Offices
  - Sales Person
  - Customers
  - Orders
  - Other Objects
  - Facts

**Column Formula**

- Bins

**Folder Heading**

- Contains HTML Markup

**Column Heading**

- Default

**Aggregation Rule (Totals Row)**

- **Available**
  - Column Formula

**Syntax**

```
EVALUATE_SCRIPT(script_file_path, output_column_name, options, [runtime_binded_column_options])
```

**Where**

- `script_file_path` represents the script XML file path. Example: `filerepo\stableOutliers.xml`
- `output_column_name` is a column name that is outputted from the script execution.
- `options` is a string list of name-value pairs separated by `;`. The value can include `%1 ... %N`, which can be specified using `runtime_binded_options`.
- `runtime_binded_column_options` is an optional comma separated list of runtime binded columns or literal expressions.

**Example**

```
EVALUATE_SCRIPT('filerepo\stableOutliers.xml', 'isOutlier', 'algorithm=mvoutlier;id=1;arg1=-2;arg2=1.3;userRandomSeed=false', 'Sales'='Customers'='Customer Number', 'Sales'='Datamining'='Expected Rev', 'Sales'='Customers'='Customer Age')
```

**Description**

This function executes a R script as specified in the `script_file_path`, passing in one or more columns or literal expressions as input. The output of the function is determined by the `output_column_name`. 
12.2.1 End-User Enhancements

- Improved analytic capabilities – new pre-built functions and add custom R scripts
OBIEE 12.2.1 Extra Thoughts

• Much Cleaner Interface for the users
  • Visual analyzer and Mashups empower users to explore their data
  • Trend Analysis and Clustering directly available for users
  • New Ask/Search capability in VA home screen

• Additional Analytic tools integrated (e.g. R)
  • Call R functions directly

• Simpler installation for the Administrator
  • Fast, simple installation
  • Out of Place Migration (no impact to 11g environments)
  • Migration utility easily migrates 11g Webcat, RPD, and security scheme to new environment

• Preparing for 12c
  • Baseline Validation Tool (works back to 11.1.1.7.1)
12.2.1 Admin and Development

- Baseline Validation Tool eases migration and migration worry-free migration from 11g

- Migration: BAR files simplify application content backup and migration
  - Creating the BAR File from Current Environment:
    ```python
    exportServiceInstance(domainHome, serviceInstanceKey, workDir, exportDir, 
    applicationName=None, applicationDesc=None, applicationVersion=None, 
    includeCatalogRuntimeInfo=false, includeCredentials=None)
    ```

  - Importing the BAR file in Target environment:
    ```python
    importServiceInstance(domainHome, serviceInstanceKey, barfile)
    ```

- No More GUIDs

- No more OPMN (startup / shutdown – much cleaner)
http://docs.oracle.com/middleware/1221/bisuite/index.html
(click Books link to get New Features in Version 12.2.1 section)
SampleApp v511 on 12.2.1 Coming

• Demo today based on SampleApp v511
• Download SampleApp from:
  OTN (SampleApp 511 will be available shortly)
• Demonstrates new features
• Runs as fully-contained VM on VirtualBox
• See demos on Oracle BI TechDemo YouTube Channel
  https://www.youtube.com/user/OracleBITechDemos
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