Multi-Dimensional Reporting with Cognos Workspace Advanced

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The Webinar will begin at 12:00pm Eastern

Audio – Webinar is using Webex Integrated Voice, ensure your speakers are on
LPA Systems

Founded in 2001

- Offices in Rochester, NY, Dallas, TX and Houston, TX – Consultants throughout US
- Hundreds of active enterprise, mid-market, and OEM clients

Partners

- IBM Premier Business Partner
- Esri Silver Tier Partner

Extensive business analytics consulting experience

- 100% Certified
- Our Consultants have an average experience of 10+ years
- Expertise from Data Warehouse through Predictive Analytics with BI and FPM in between
- 2013 IBM Beacon Award Finalist
LPA Business Analytic Offerings

Advisory Services
- BI Consulting Expertise
- BI Strategy and Roadmap
- Cognos Health Check
- BICC Assessment
- Cognos Mobile Strategy
- Cognos Workspace Strategy
- OLAP Strategy

Implementation Services
- Let us do it for you
- Cognos Installation and Configuration
- Cognos Upgrade Service
- BI Sprint One
- BI Full Project Lifecycle
- Esri Maps for Cognos Quick Start

Training
- Enable the end user, empower your team
- Report Studio
- Active Reports
- Cognos Workspace Advanced
- Framework Manager
- Cognos Workspace
- Query Studio
- What's New in Cognos 10.2
- Esri Maps for IBM Cognos for End Users

Support Services
- Expert support when you need it
- Ongoing Support
- IBM Renewals & Licenses
LPA Cognos 10.2.1 Upgrade Assessment

Currently offering a **NO COST** ROM Estimate Analysis for your upgrade – you will receive:

- Work Breakdown Structure with ROM Estimates
- Remediation Expectations
- License Recommendations
- Summary of Benefits vs. your Current Version
- Training Recommendations
- Proposal

Agenda

• Reporting Styles – Relational vs. Dimensional
• Dimensional Sources
• Dimensional Vocabulary
• How to View and Read a Dimensional Package
• Demonstration: Authoring using a Dimensional Package
• Questions & Answers
Cognos Workspace Advanced and Report Studio support two distinct Reporting Styles

<table>
<thead>
<tr>
<th>Relational Style</th>
<th>Dimensional Style</th>
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</thead>
<tbody>
<tr>
<td>Tables and Columns oriented</td>
<td>Dimensions intersecting at cells</td>
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<tr>
<td>Often flat</td>
<td>Often hierarchical, consisting of levels and level properties</td>
</tr>
<tr>
<td>Often presented in Lists</td>
<td>Often presented in a Crosstab</td>
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<tr>
<td>Focus data with Filters</td>
<td>Focus data with Set Expressions</td>
</tr>
<tr>
<td>Summarize with Headers and Footers</td>
<td>Summarize with Set Summaries</td>
</tr>
</tbody>
</table>
IBM Cognos BI OLAP Data Sources

**Dynamic Cubes**
- High Data Volumes
- Low latency / fast performance / 64-bit
- Optimized Aggregates / aggregate-aware
- Star or Snowflake schema required

**PowerCubes**
- Low / medium data volumes
- Data moved into physical cube structure
- Latency linked to cube build / refresh times
- 32-bit (2GB cube size limit)

**DMR**
- Low / Medium data volumes
- Caching for performance (DQM) / 64-bit
- Leverage existing Framework Model
- Performance slower using transactional systems
OLAP Vocabulary - 1

• **Measures** – numeric data being tracked. Part of a Measure Dimension
  – Revenue, Quantity, Planned Revenue, Order Count, Headcount

• **Regular Dimensions** – business parameters that define hierarchies and attributes important to your enterprise
  – Date, Geography, Department, Employee, Territory, Product, Store

• **Level** – A position in a dimension hierarchy
  – In a Date dimension you might have levels such as Year, Quarter and Month
OLAP Vocabulary - 2

• **Member** – A specific value in a dimension hierarchy, specified by its unique name (MUN)
  – The Member: 8/1/2006

• **Tuple** – Also called an **Intersection**. An ordered collection of one or more members from different dimensions that describe a specific collection of intersections, or a “slice”, of a cube
  – (8/1/2006, SKU 1234, United States, Northeast, $150)

• **Set** - A collection of one or more identically formed tuples

Multi-Dimensional Reporting with Cognos Workspace Advanced
• There are two tree views in Cognos Workspace Advanced
  – Members-only
  – Full Package
• To change what is included in the tree right-click in the Source tab and choose Package Tree Settings
Reading the Full Package View

1. Package
2. Dimension
3. Hierarchy
4. Members
5. Level
6. Member Property
Inserting Data: Overview

• Cognos Workspace Advanced groups data by level
  – For example, when you add the Product Type level to a crosstab, all of the individual product types (the “members” of the Product Type level) appear

• You can also create sets of members from different levels in the same hierarchy
  – For example you can create a set of members that includes only Cooking Gear (a product line) and Lanterns (a product type) and then add that set to a crosstab

• When inserting a member you can choose to insert just a member, just the children of a member, or a member and its children by using the insert options button at the top of the Source pane
Drilling Up and Down

• Drilling up and down on members and sets allows you to traverse the levels of a hierarchy
  – Drill down replaces a member with its children
  – Drill up replaces a member with its parent set

• To drill down in Preview Mode double-click on a member or right-click and choose Drill Down

• To drill up in Preview Mode double-click the parent (if available) or right-click and choose Drill Up
DEMONSTRATION
QUESTIONS?
THANK YOU!

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