ASUG SAP BusinessObjects USER CONFERENCE



BUSINESS INTELLIGENCE FOR A PASSIONATE COMMUNITY

Implementing Aggregate Awareness in SAP BusinessObjects 3.1

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Presentation Objectives/Agenda

- The importance of Aggregate Awareness, which takes advantage of database summary tables, speeding up report queries
- Summary tables and adding them to the universe
- ♦ The @Aggregate Aware Function, how it works, and how query efficiency is improved through its use
- Redefining objects: How to apply @Aggregate Aware to the Select statement SQL
- Detecting Incompatibility and setting objects to be compatible with the Summary tables
- Testing Aggregate Awareness with the report tool



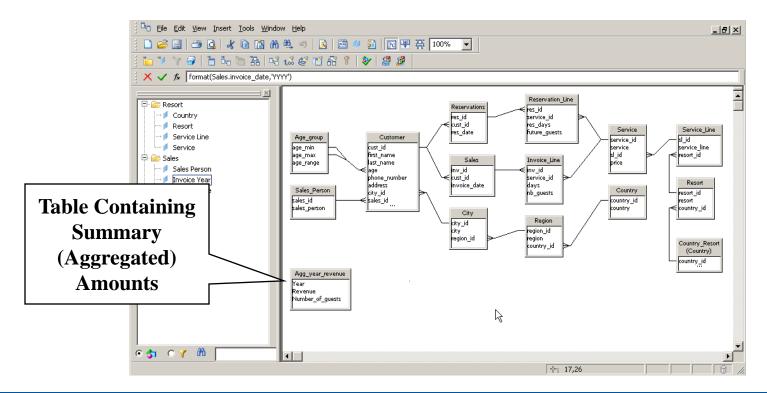
- What Is Aggregate Awareness?
- Summary Tables
- ◆ Use @Aggregate_Aware Function
- Detect Incompatibility
- Aggregate Awareness Testing



- Process That Incorporates Higher Level Aggregation (Summary Tables) into Universe
- ♦ Speeds up Queries That Contain Statistics Reported at Higher Levels (i.e. Year)



- **♦** Summary Tables
 - May or May Not Actually Be Joined to Detail Tables in Universe





Summary Tables

- Store Data at Higher Level Than Detail (Fact) Tables
- ◆ Increase Processing Efficiency
 - ♦ Fewer Rows Retrieved
 - ♦ Few If Any Calculations Required
 - ♦ Few or No Joins



Apply Aggregate Awareness

- ♦ Insert Summary Tables into Universe
- ◆ Add Joins, Set Cardinality (If Needed)
- Redefine or Create Objects Using @Aggregate_Aware
- Define Compatible/Incompatible Objects Using Aggregate Navigation



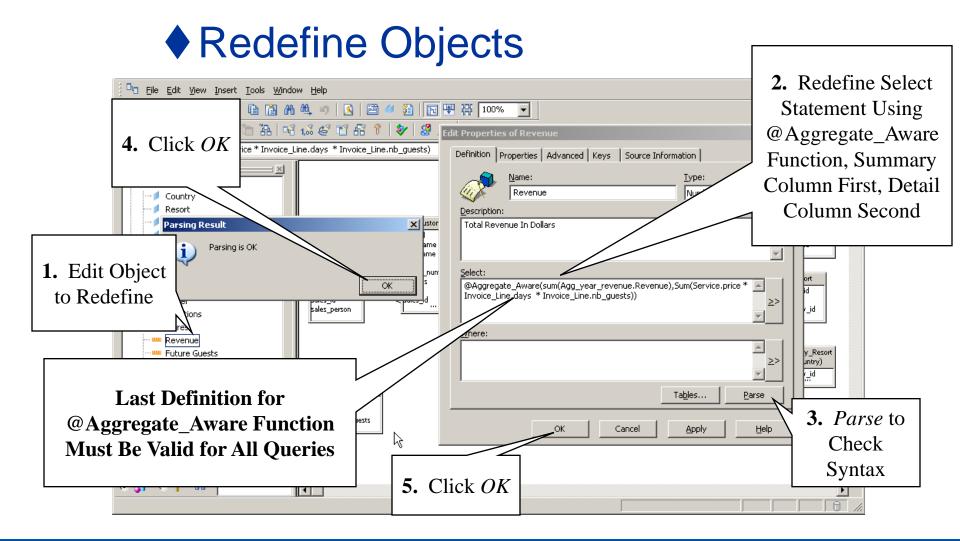
@Aggregate_Aware

- ◆ Can Be Used with Aggregates (Measures) and Dimensions
- Selects Information from Most Aggregated to Least Aggregated (Summary to Detailed)

@Aggregate_Aware(sum(aggregate table1),...,sum(aggregate tableN)) Defines a measure object using precalculated aggregate tables.



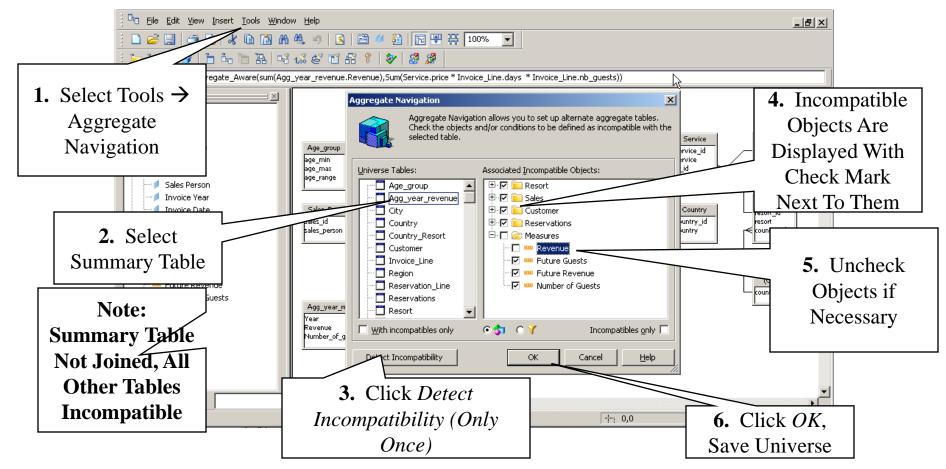
Apply Aggregate Awareness





Apply Aggregate Awareness

Defining Compatible Objects



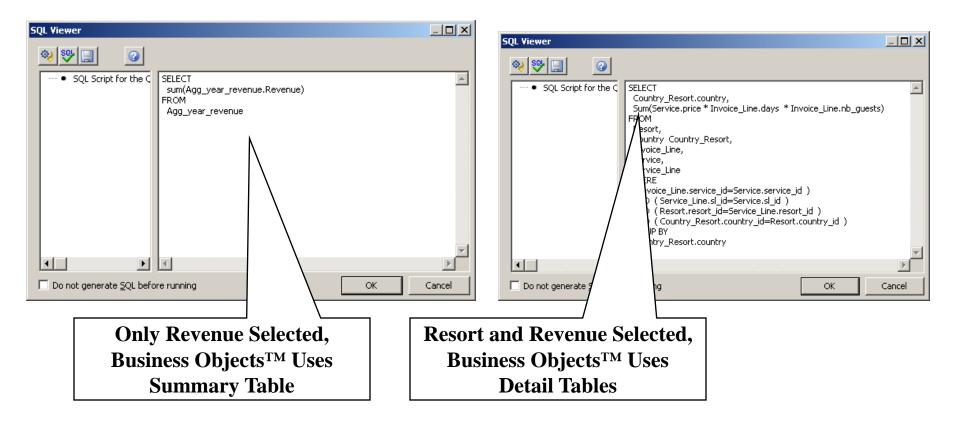


Detect Incompatibility

- Checks SQL Statement for Columns from Selected Table
- Check Incompatible Settings at least once
- Set On or Off Manually as Necessary
- Check All Necessary Tables

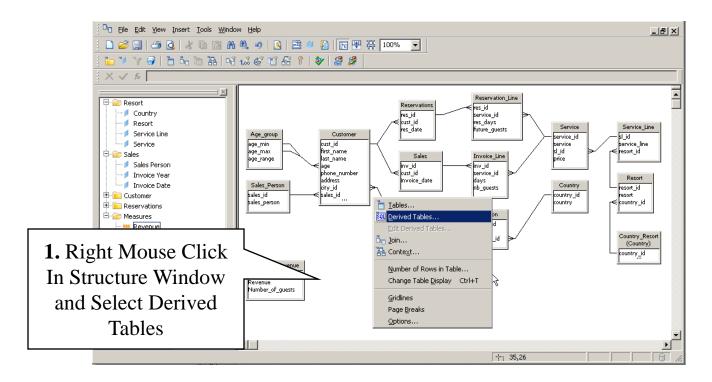


♦ Testing Using Desktop Intelligence™

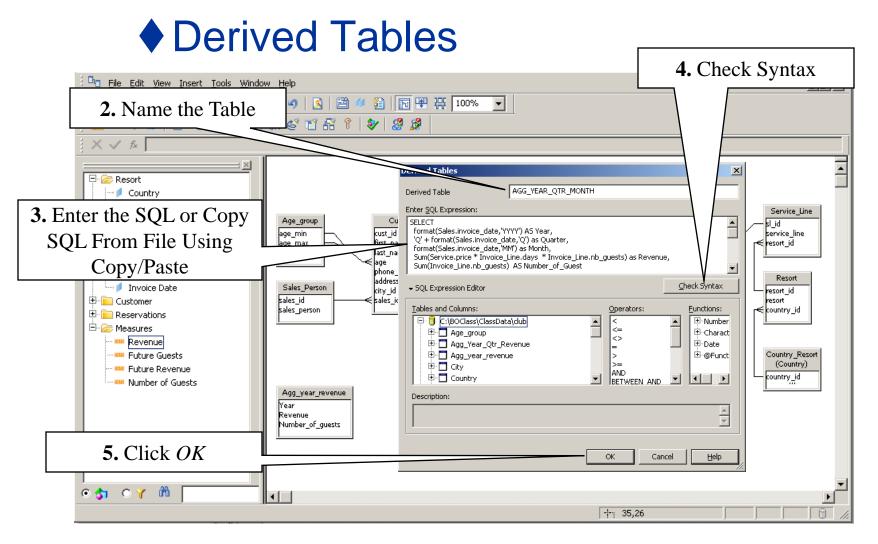




- Derived Tables
 - ♦ SQL Used to Create View Like Table

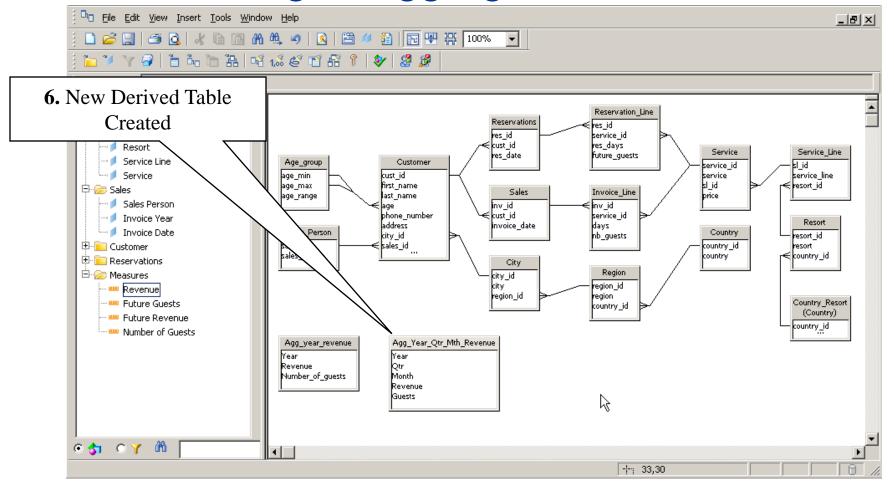






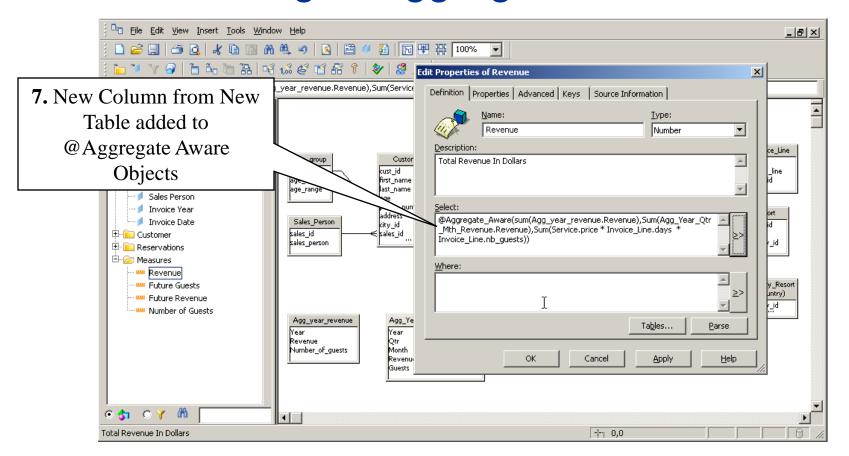


Adding to Aggregate Awareness



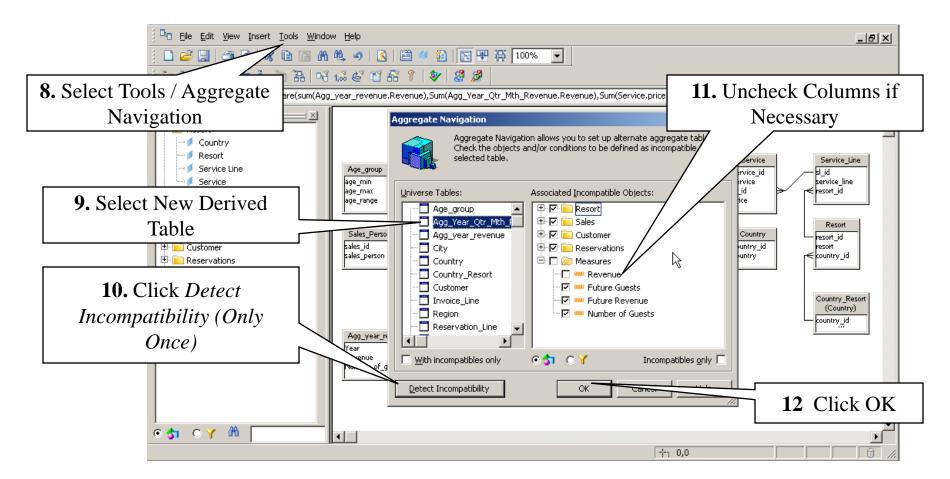


Adding to Aggregate Awareness



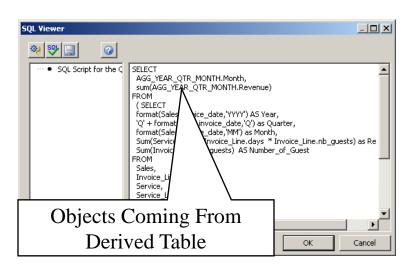


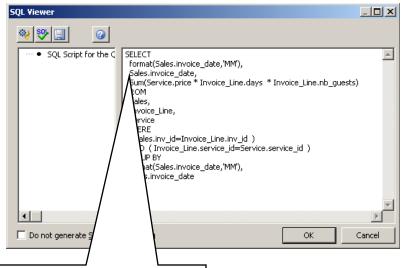
Setting Aggregate Navigation





◆ Test Using Desktop Intelligence





Note: Test Done After Invoice Month had been Made Aggregate Aware Using the New Derived Table Addition of Invoice Date Causes Aggregate Aware Objects to Use Fact Based Columns



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