

Module 1 Overview of Design and Build a Data Warehouse

Lesson 2: Course topics and assignments



Lesson Objectives

- Understand course orientation and flow
- Plan for assignments and assessments
- Install and configure software



Case Study



Integrate and extend concepts and skills Larger, more complex problems Realistic business situation





Course Flow

Module

- Course background
- Organization background
- Software requirements

Module 2

- Business situation for data warehouse design
- Data source requirements
- Reporting needs

Module 3

- Business situation for data integration
- Change data processing requirements
- Workflow extensions

Module 4

- Business situation for analytical queries and materialized views
- · Analytical query requirements
- Summary data requirements

Module 5

- Business situation for dashboard and reporting
- Dashboard requirements
- Visualization requirements





Lesson Overviews

Context for each module

Executive interviews

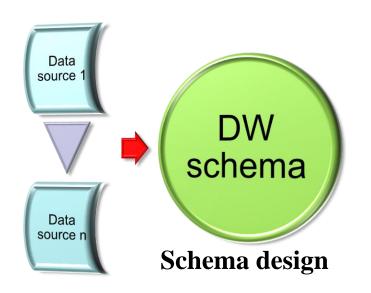
Case background

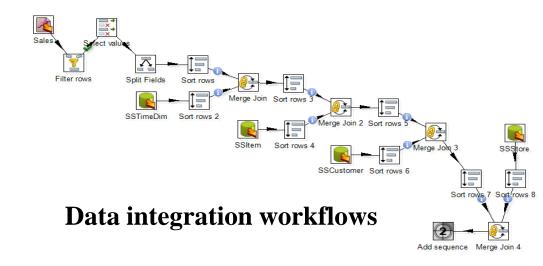
Perspectives from external organizations





Assignments





SELECT CustState, CustName,
SUM(SalesDollar) AS SumSales,
RANK() OVER (PARTITION BY CustState
ORDER BY SUM(SalesDollar) DESC)
SalesRank

SQL analytical queries



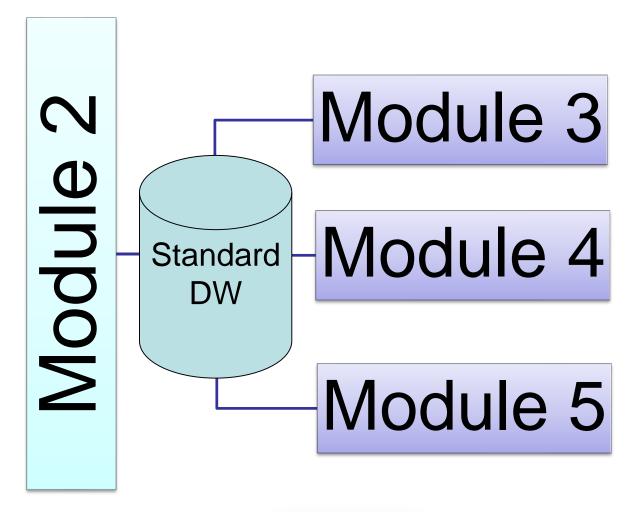
Dashboard and visualizations

6





Assignment Dependency

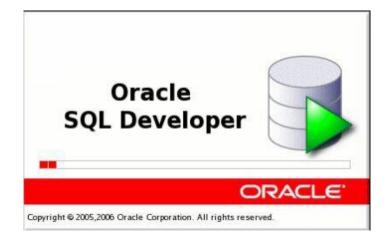






Tools















Summary

- Integrate and extend concepts and skills
- Organized around realistic case study
- Assignments based on major parts of other courses
- Usage of Oracle server and client, Pentaho Data Integration, and Microstrategy Desktop
- Executive interviews for organizational perspectives

