OVERVIEW
This 3-day course provides step-by-step instructions for creating ad-hoc queries in Oracle 11g Business Intelligence using the Analyses Editor. You will learn to build a simple adhoc report starting with basic requests, then add more complexity. You will also learn how to build dashboards for distribution of the Analyses reports. Topics include pivot tables, charts, gauges, prompts, embedded content, navigation links, and formatting. There is also a review of the relational and dimensional data models and their differences.

OBJECTIVES
- Review relational database terminology
- Define multi-dimensional terminology
- Describe the benefits and uses of the dimensional model, also known as a Star schema
- Define the Data Warehouse and how it is used.
- Understand the overall design and structure of a Data Warehouse, including the layered architecture
- Create and modify reports using the Analyses Editor
- Understand the purpose and features in the following sections of the Analyses Editor
  - Criteria
  - Results
  - Prompts
  - Advanced
- Understand how to define conditions for filtering data
- Understand how to define prompts and how that differs from filtering conditions
- Working with Exceptions and Calculations
- Understand how to use SQL functions in your calculations
- Define sorts, totals, and percentages
- Understand how to navigate the layouts and views available in the Results section
- Create new views in the layout for your report requests
- Use Pivot table layouts for drilling of the data
- Use Graphing and Charting of the data
- Create guided navigation links within your Analyses reports
- Understand Briefing books and how to create and different ways to view them
- Employ recommended design principles and best practices

INTENDED AUDIENCE
This course is designed for people who will be retrieving and analyzing data using Oracle Reporting and Dashboards using Oracle BI Enterprise Edition. This includes Business Intelligence Developer, Business Analysts, Technical Consultant, End Users and Application Developers.

PREREQUISITES
Understanding of Relational and Dimensional Databases and basic understanding of SQL. Both of these classes are offered
FORMAT/MATERIALS

This course includes a combination of lecture, discussion and numerous computer workshops. Students will receive an extensive course manual covering topics covered in this class and the lab solutions.

CONTENT

1. Understanding Relational and Dimensional Model
   a. Relational Model
      • What is a relational model?
      • What is a primary key?
      • What is a foreign key?
      • How are relationships established
      • What are associative tables and why used?
      • How does SQL used in a relational database?
   b. Dimensional Model
      • What is a dimensional model?
      • The Star or Cube Schema
      • The Snowflake Schema
      • Snowflake Schema Design
      • Star vs. Snowflake Schema
      • Fact Tables
      • Dimension tables
      • What is a Data Warehouse?
      • How is it used?
   c. Layered Data Architecture and Data Warehouse
      • Transactional layer
      • Staging layer
      • Operational Data store for relational online analytical processing (ROLAP)
      • Analytical layer for online analytical processing (OLAP)
      • Database products used for storing data layers
      • Tools used for extract, translate and load
      • Tools used for Business Intelligence reporting

2. Working with Oracle Business Intelligence Analyses
   a. Introduction to Oracle Business Intelligence Analyses
   b. Starting Oracle Business Intelligence
   c. Understanding the purpose of the 4 sections:
      • Criteria
      • Results
      • Prompt
      • Advanced
   d. Working with Requests
   e. Constructing a Request
   f. Saving a Request
3. Filtering Requests
   a. Filtering data for Requests
   b. Editing SQL for a Column Filter
   c. Using a Saved Request as a Filter
   d. Column Filter Prompts
   e. Adding a Column Filter Prompt to a Request
   f. Image Filter Prompts

4. Oracle Business Intelligence Features
   a. Creating totals and subtotals
   b. Creating percentages
   c. Combining request criteria using set operations
   d. Executing direct database requests
   e. Editing logical SQL generated by a request
   f. Working with compound views
   g. Working with Presentation Variables

5. Configuring Guided Navigation Links
   a. Building guided navigation with static links
   b. Building guided navigation with conditional links and sections
   c. Understand the difference between drilling and navigational links
   d. Understand the difference in linking on data verses headings

6. Layouts and Views
   a. Oracle Business Intelligence Views
   b. Charts
   c. Formatting Charts
   d. Best Practices
   e. Column Selector View
   f. Creating a Column Selector View

7. Working with Pivot Tables
   a. Oracle Business Intelligence Views
   b. Creating a Pivot Table
   c. Showing Results in Pivot Tables
   d. Customizing a Pivot Table
   e. Understanding Relative Value
   f. Displaying Relative Value
   g. Adding a Graph and Using Calculations
   h. Displaying Running Sums

8. Building Views and Charts in Requests
   a. Introduction to layout views and charting
b. Working with Bar graphs

c. Working with Pie charts

d. Working with Gauge views

e. Creating and editing charts

f. Understanding how to change the properties available with charting

g. Performing common charting tasks

9. **Oracle Business Intelligence Briefing Books**

   a. Creating Briefing Books

   b. Working with Briefing Books

   c. Viewing Briefing Books