



Oracle BI Metadata Administration Certification

OBIEE METADATA ADMINISTRATION CERTIFICATION

This certification provides both standard and advanced training in topics related to the tasks performed by an Oracle BI Server Architect. It is intended for individuals on the implementation team whose major role is to build and modify, and administer data models and metadata for Oracle BI.

Students participating in these courses will:

- Build the Physical, Business Model and Mapping, and Presentation layers of a repository
- Build simple and calculated measures for a fact table
- Create dimension hierarchies and level-based measures
- Model aggregate tables to speed query processing
- Model partitions and fragments to improve application performance and usability
- Use variables to streamline administrative tasks and modify metadata content dynamically
- Use time series functions to support historical time comparison analyses
- Apply cache management techniques to maintain and enhance query performance
- Set up query logging for testing and debugging
- Advanced techniques of creating repository metadata
- Advanced techniques for administrating and tuning deployments
- Advanced modeling concepts
- Set up for multi-user development
- Advanced usage tracking
- Installation and deployment on multiple hardware
- BI Server Clustering

Suggested Prerequisites:

- Dimensional modeling
- Basic SQL
- Data warehouse design
- Database design

Course Duration:

- Two 3 days courses (total of six days not concurrently)
- Detailed schedule is given below

Oracle BI Metadata Administration - Training Day 1

Time	Topic	Detail
9:00 to 10:45	Oracle Business Intelligence Server Architecture	<ul style="list-style-type: none"> • Oracle BI architecture components • Repository structure, features, and functions • Using the Oracle BI Administration Tool • Creating a repository
10:45 to 11:00	Break	
11:00 to 12:00	Building the Physical Layer of a Repository	<ul style="list-style-type: none"> • Importing data sources • Setting up connection pool properties • Defining keys and joins • Examining physical layer object properties
12:00 to 1:00	Lunch	
1:00 to 2:45	Building the Business Model Layer – Part 1	<ul style="list-style-type: none"> • Building a business model • Building logical tables, columns, and sources • Defining logical joins
2:45 to 3:00	Break	
3:00 to 5:00	Building the Business Model Layer – Part 2	<ul style="list-style-type: none"> • Building measures • Examining business model object properties

Oracle BI Metadata Administration - Training Day 2

Time	Topic	Detail
9:00 to 10:45	Building the Presentation Layer	<ul style="list-style-type: none"> • Exploring Presentation layer objects • Creating Presentation layer objects • Modifying Presentation layer objects • Examining Presentation layer object properties
10:45 to 11:00	Break	
11:00 to 12:00	Testing and Validating a Repository	<ul style="list-style-type: none"> • Checking repository consistency • Turning on logging • Defining a repository in the initialization file • Testing a repository using Oracle BI Answers • Inspecting the query log
12:00 to 1:00	Lunch	
1:00 to 2:45	Logical Table Sources	<ul style="list-style-type: none"> • Adding multiple logical table sources to a logical table • Specifying logical content
2:45 to 3:00	Break	
3:00 to 4:00	Calculated Measures	<ul style="list-style-type: none"> • Creating new calculation measures based on existing logical columns • Creating new calculation measures based on physical columns • Creating new calculation measures using the Calculation Wizard
4:00 to 5:00	Dimensional Hierarchies and Level Based Measures	<ul style="list-style-type: none"> • Creating dimension hierarchies • Creating level-based measures • Creating share measures • Creating rank measures

Oracle BI Metadata Administration - Training Day 3

Time	Topic	Detail
9:00 to 10:45	Aggregates or Summary Tables	<ul style="list-style-type: none"> • Purpose of aggregate tables in dimensional modeling • Modeling aggregate tables to improve query performance • Testing aggregate navigation • Using the aggregate persistence wizard
10:45 to 11:00	Break	
11:00 to 12:00	Partitions and Fragments	<ul style="list-style-type: none"> • Purpose for segmenting data into partitions and fragments • Partition types • Modeling partitions in an Oracle BI repository
12:00 to 1:00	Lunch	
1:00 to 1:45	Initialization Blocks and Variables	<ul style="list-style-type: none"> • Session variables • Repository variables • Initialization blocks • Using the Variable Manager • Using dynamic repository variables as filters
1:45 to 2:45	Time Based Calculations	<ul style="list-style-type: none"> • Using time comparisons in business analysis • Using Oracle BI time series functions to model time series data
2:45 to 3:00	Break	
3:00 to 4:00	Metadata Design Best Practices	<ul style="list-style-type: none"> • Metadata design best practices • Overview of performance considerations
4:00 to 4:30	Evaluation Test	<ul style="list-style-type: none"> • Written test • Covering metadata design concepts and best practices
4:30 to 5:00	Wrap-Up	<ul style="list-style-type: none"> • Test results • Question and Answer

Oracle BI Advanced Metadata Administration - Training Day 1

Time	Topic	Detail
9:00 to 10:45	Advanced metadata techniques	<ul style="list-style-type: none"> • Bridge tables • Helper tables • Outer joins • Implicit fact columns
10:45 to 11:00	Break	
11:00 to 12:00	Slowly changing dimensions	<ul style="list-style-type: none"> • Modeling slowly changing dimensions
12:00 to 1:00	Lunch	
1:00 to 2:45	Repository Security	<ul style="list-style-type: none"> • Creating users and groups • Setting permissions for users and groups • Row wise initialization blocks • Authentication and single sign-on options • Setting query limits and timing restrictions • Setting filters to personalize information
2:45 to 3:00	Break	
3:00 to 5:00	Introduction to Sales Analytics Case Study	<ul style="list-style-type: none"> • The metadata portion of the Sales Analytics case study is presented to the class and students start working on the case study

Oracle BI Advanced Metadata Administration - Training Day 2

Time	Topic	Detail
9:00 to 10:45	Cache Management	<ul style="list-style-type: none"> • Restricting tables as non-cacheable • Using Cache Manager • Inspecting cache reports • Purging cache entries • Seeding the cache • Modifying cache parameters and options
10:45 to 11:00	Break	
11:00 to 12:00	Designing for Performance	<ul style="list-style-type: none"> • Looking at performance holistically • ETL, metadata and report considerations • Database consideration
12:00 to 1:00	Lunch	
1:00 to 2:45	Clustering and Fail over	<ul style="list-style-type: none"> • Multiple server install • Clustering, fail over and load balancing
2:45 to 3:00	Break	
3:00 to 5:00	Sales Analytics Case Study Continued	<ul style="list-style-type: none"> • Continue building the Sales Analytics case study repository

Oracle BI Advanced Metadata Administration - Training Day 3

Time	Topic	Detail
9:00 to 10:45	Sales Analytics Case Study Continued	<ul style="list-style-type: none">• Continue building the Sales Analytics case study repository
10:45 to 11:00	Break	
11:00 to 12:00	Multi-User Development	<ul style="list-style-type: none">• Setting up a multi-user development environment
12:00 to 1:00	Lunch	
1:00 to 2:45	Deployment Considerations	<ul style="list-style-type: none">• Scheduler installation• Usage tracking• Administration Tool utilities
2:45 to 3:00	Break	
3:00 to 4:00	Case Study Presentation	<ul style="list-style-type: none">• Students present their case studies to the class and discuss the design issues encountered
4:00 to 4:30	Evaluation Test	<ul style="list-style-type: none">• Written test• Covering metadata, performance and deployment
4:30 to 5:00	Wrap-Up	<ul style="list-style-type: none">• Test results• Question and Answer