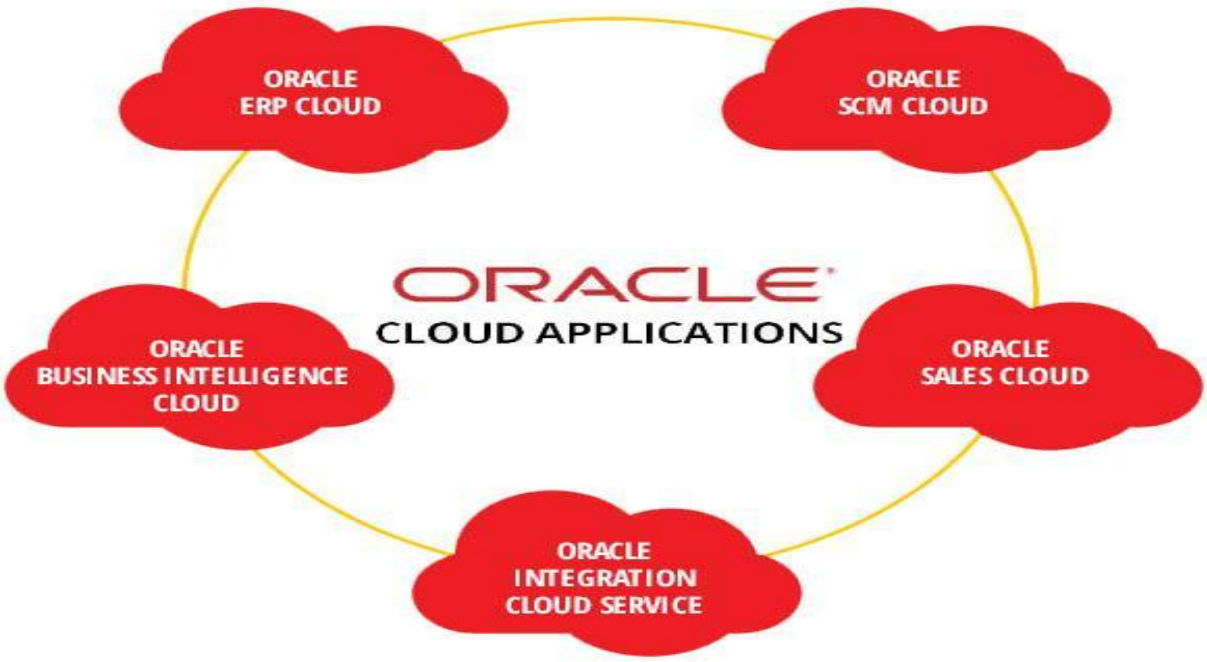
LEARN TODAY AND LEAD TOMORROW



Overview

Let eMexo Technologies **Best Oracle Training in Electronic City Bangalore** take you from the fundamentals of Oracle to Advance Oracle and make you an expert in developing real-time Apache Spark applications. Here are the major topics we cover under this Oracle course Syllabus **Introduction to Oracle Database, Retrieve Data using the SQL SELECT Statement, Learn to Restrict and Sort Data, Usage of Single-Row Functions to Customize Output, Invoke Conversion Functions & Conditional Expressions, Aggregate Data Using the Group Functions, Display Data From Multiple Tables Using Joins, Use Subqueries to Solve Queries, The SET Operators, Data Manipulation Statements, Use of DDL Statements to Create & Manage Tables, Other Schema Objects, Control User Access, Management of Schema Objects, Manage Objects with Data Dictionary Views, Manipulate Large Data Sets, Data Management in Different Time Zones, Retrieve Data Using Sub-queries, Regular Expression Support, Oracle PLSQL Training Syllabus - Introduction to PL/SQL, PL/SQL Identifiers, Write Executable Statements, Interaction with the Oracle Server, Control Structures, Composite Data Types, Explicit Cursors, Exception Handling, Stored Procedures & Functions, Create Stored Procedures, Create Stored Functions, Create Packages, Packages, Implement Oracle-Supplied Packages in Application Development, Dynamic SQL, Design Considerations for PL/SQL Code, Triggers, Create Compound, DDL, & Event Database Triggers, The PL/SQL Compiler, Manage PL/SQL Code, and Manage Dependencies.** Each topic will be covered in a practical way with examples for our **Oracle Course in Electronic City Bangalore**.

All the topics will be covered with Practical and hands-on training. Our trainers have industry experience with live project experience in cutting-edge technologies which they teach. We hire only the Best Oracle industry specialists as trainers for our **Oracle Certification Training in Electronic City Bangalore**.

If you are looking for **Oracle Certification Course in Electronic City Bangalore**, eMexo Technologies is the **Best Oracle Training Institute in Electronic City Bangalore**. Come over to our training institute for a free demo class. Let our trainer give you a demo on Oracle and only then do you make the decision to enroll in the training program.

Training Features

Real-life Case Studies

Do a real-life case study to understand the usage in real-world scenarios.

Assignments

Each class will be followed by a practical assignment switch that can be completed before the next class.

Preparation for interview

Our trainers are professionals working in multinational corporations. They are experts in their field and know exactly what the interviewer will look for in the candidate. Experienced trainers share interview questions and conduct mock interviews to help prepare for the actual interview.

Key Features

eMexo Technologies offers the **Best Oracle Training Course in Electronic City Bangalore** with the TOP industry expert trainers.

Here are the key features.

- ★ Free Demo Class Available
- ★ Practical Approach
- ★ Expert & Certified Trainers
- ★ 100% Job Oriented Training
- ★ Real World use cases and Scenarios
- ★ Completed 500+ Batches
- ★ Certification Guidance

Unit 1: Introduction to Oracle Database

List the features of Oracle Database 11g

Discuss the basic design, theoretical, and physical aspects of a relational database

Categorize the different types of SQL statements

Describe the data set used by the course

Log on to the database using SQL Developer environment

Save queries to files and use script files in SQL Developer

Hands-On

Unit 2: Retrieve Data using the SQL SELECT Statement

List the capabilities of SQL SELECT statements

Generate a report of data from the output of a basic SELECT statement

Select All Columns

Select Specific Columns

Use Column Heading Defaults

Use Arithmetic Operators

Understand Operator Precedence

Learn the DESCRIBE command to display the table structure

Hands-On

Unit 3: Learn to Restrict and Sort Data

Write queries that contain a WHERE clause to limit the output retrieved

List the comparison operators and logical operators that are used in a WHERE clause

Describe the rules of precedence for comparison and logical operators

Use character string literals in the WHERE clause

Write queries that contain an ORDER BY clause to sort the output of a SELECT statement

Sort output in descending and ascending order

Hands-On

Unit 4: Usage of Single-Row Functions to Customize Output

Describe the differences between single row and multiple row functions

Manipulate strings with character function in the SELECT and WHERE clauses

Manipulate numbers with the ROUND, TRUNC, and MOD functions

Perform arithmetic with date data

Manipulate dates with the DATE functions

Hands-On

Unit 5: Invoke Conversion Functions & Conditional Expressions

Describe implicit and explicit data type conversion

Use the TO_CHAR, TO_NUMBER, and TO_DATE conversion functions

Nest multiple functions

Apply the NVL, NULLIF, and COALESCE functions to data

Use conditional IF THEN ELSE logic in a SELECT statement

Hands-On

Unit 6: Aggregate Data Using the Group Functions

Use the aggregation functions in SELECT statements to produce meaningful reports

Divide the data in groups by using the GROUP BY clause

Exclude groups of date by using the HAVING clause

Hands-On

Unit 7: Display Data From Multiple Tables Using Joins

Write SELECT statements to access data from more than one table

View data that generally does not meet a join condition by using outer joins

Join a table by using a self join

Hands-On

Unit 8: Use Subqueries to Solve Queries

Describe the types of problem that subqueries can solve

Define sub-queries

List the types of sub-queries

Write single-row and multiple-row subqueries

Hands-On

Unit 9: The SET Operators

Describe the SET operators

Use a SET operator to combine multiple queries into a single query

Control the order of rows returned

Hands-On

Unit 10: Data Manipulation Statements

Describe each DML statement

Insert rows into a table

Change rows in a table by the UPDATE statement

Delete rows from a table with the DELETE statement

Save and discard changes with the COMMIT and ROLLBACK statements

Explain read consistency

Hands-On

Unit 11: Use of DDL Statements to Create & Manage Tables

Categorize the main database objects

Review the table structure

List the data types available for columns

Create a simple table

Decipher how constraints can be created at table creation

Describe how schema objects work

Hands-On

Unit 12: Other Schema Objects

Create a simple and complex view

Retrieve data from views

Create, maintain, and use sequences

Create and maintain indexes

Create private and public synonyms

Hands-On

Unit 13: Control User Access

Differentiate system privileges from object privileges

Create Users

Grant System Privileges

Create and Grant Privileges to a Role

Change Your Password

Grant Object Privileges

How to pass on privileges?

Revoke Object Privileges

Hands-On

Unit 14: Management of Schema Objects

Add, Modify and Drop a Column

Add, Drop and Defer a Constraint

How to enable and disable a Constraint?

Create and Remove Indexes

Create a Function-Based Index

Perform Flashback Operations

Create an External Table by Using ORACLE_LOADER and by Using ORACLE_DATAPUMP

Query External Tables

Hands-On

Unit 15: Manage Objects with Data Dictionary Views

Explain the data dictionary

Use the Dictionary Views

USER_OBJECTS and ALL_OBJECTS Views

Table and Column Information

Query the dictionary views for constraint information

Query the dictionary views for view, sequence, index and synonym information

Add a comment to a table

Query the dictionary views for comment information

Hands-On

Unit 16: Manipulate Large Data Sets

Use Subqueries to Manipulate Data

Retrieve Data Using a Subquery as Source

Insert Using a Subquery as a Target

Usage of the WITH CHECK OPTION Keyword on DML Statements

List the types of Multitable INSERT Statements

Use Multitable INSERT Statements

Merge rows in a table

Track Changes in Data over a period of time

Hands-On

Unit 17: Data Management in Different Time Zones

Time Zones

CURRENT_DATE, CURRENT_TIMESTAMP, and LOCALTIMESTAMP

Compare Date and Time in a Session's Time Zone

DBTIMEZONE and SESSIONTIMEZONE

Difference between DATE and TIMESTAMP

INTERVAL Data Types

Use EXTRACT, TZ_OFFSET and FROM_TZ

Invoke TO_TIMESTAMP,TO_YMINTERVAL and TO_DSINTERVAL

Hands-On

Unit 18: Retrieve Data Using Sub-queries

Multiple-Column Subqueries

Pairwise and Non Pairwise Comparison

Scalar Subquery Expressions

Solve problems with Correlated Subqueries

Update and Delete Rows Using Correlated Subqueries

The EXISTS and NOT EXISTS operators

Invoke the WITH clause

The Recursive WITH clause

Hands-On

Unit 19: Regular Expression Support

Use the Regular Expressions Functions and Conditions in SQL

Use Meta Characters with Regular Expressions

Perform a Basic Search using the REGEXP_LIKE function

Find patterns using the REGEXP_INSTR function

Extract Substrings using the REGEXP_SUBSTR function

Replace Patterns Using the REGEXP_REPLACE function

Usage of Sub-Expressions with Regular Expression Support

Implement the REGEXP_COUNT function

Hands-On

Unit 20: Oracle PLSQL Training Syllabus - Introduction to PL/SQL

PL/SQL Overview

Benefits of PL/SQL Subprograms

Overview of the Types of PL/SQL blocks

Create a Simple Anonymous Block

Generate Output from a PL/SQL Block

Hands-On

Unit 21: PL/SQL Identifiers

List the different Types of Identifiers in a PL/SQL subprogram

Usage of the Declarative Section to define Identifiers

Use variables to store data

Identify Scalar Data Types

The %TYPE Attribute

What are Bind Variables?

Sequences in PL/SQL Expressions

Hands-On

Unit 22: Write Executable Statements

Describe Basic PL/SQL Block Syntax Guidelines

Comment Code

Deployment of SQL Functions in PL/SQL

How to convert Data Types?

Nested Blocks

Identify the Operators in PL/SQL

Hands-On

Unit 23: Interaction with the Oracle Server

Invoke SELECT Statements in PL/SQL to Retrieve data

Data Manipulation in the Server Using PL/SQL

SQL Cursor concept

Usage of SQL Cursor Attributes to Obtain Feedback on DML

Save and Discard Transactions

Hands-On

Unit 24: Control Structures

Conditional processing Using IF Statements

Conditional processing Using CASE Statements

Use simple Loop Statement

Use While Loop Statement

Use For Loop Statement

Describe the Continue Statement

Hands-On

Unit 25: Composite Data Types

Use PL/SQL Records

The %ROWTYPE Attribute

Insert and Update with PL/SQL Records

Associative Arrays (INDEX BY Tables)

Examine INDEX BY Table Methods

Use INDEX BY Table of Records

Hands-On

Unit 26: Explicit Cursors

What are Explicit Cursors?

Declare the Cursor

Open the Cursor

Fetch data from the Cursor

Close the Cursor

Cursor FOR loop

Explicit Cursor Attributes

FOR UPDATE Clause and WHERE CURRENT Clause

Hands-On

Unit 27: Exception Handling

Understand Exceptions

Handle Exceptions with PL/SQL

Trap Predefined Oracle Server Errors

Trap Non-Predefined Oracle Server Errors

Trap User-Defined Exceptions

Propagate Exceptions

RAISE_APPLICATION_ERROR Procedure

Hands-On

Unit 28: Stored Procedures & Functions

Understand Stored Procedures and Functions

Differentiate between anonymous blocks and subprograms

Create a Simple Procedure

Create a Simple Procedure with IN parameter

Create a Simple Function

Execute a Simple Procedure

Execute a Simple Function

Hands-On

Unit 29: Create Stored Procedures

Create a Modularized and Layered Subprogram Design

Modularize Development With PL/SQL Blocks

Describe the PL/SQL Execution Environment

Identity the benefits of Using PL/SQL Subprograms

List the differences Between Anonymous Blocks and Subprograms

Create, Call, and Remove Stored Procedures Using the CREATE Command and SQL Developer

Implement Procedures Parameters and Parameters Modes

View Procedures Information Using the Data Dictionary Views and SQL Developer

Hands-On

Unit 30: Create Stored Functions

Create, Call, and Remove a Stored Function Using the CREATE Command and SQL Developer

Identity the advantages of Using Stored Functions in SQL Statements

List the steps to create a stored function

Implement User-Defined Functions in SQL Statements

Identity the restrictions when calling Functions from SQL statements

Control Side Effects when calling Functions from SQL Expressions

View Functions Information

Hands-On

Unit 31: Create Packages

Identity the advantages of Packages

Describe Packages

List the components of a Package

Develop a Package

How to enable visibility of a Package's components?

How to enable visibility of a Package's components?

Invoke Package Constructs

View PL/SQL Source Code Using the Data Dictionary

Hands-On

Unit 32: Packages

Overloading Subprograms in PL/SQL

Use the STANDARD Package

Use Forward Declarations to Solve Illegal Procedure Reference

Implement Package Functions in SQL and Restrictions

Persistent State of Packages

Persistent State of a Package Cursor

Control Side Effects of PL/SQL Subprograms

Invoke PL/SQL Tables of Records in Packages

Hands-On

Unit 33: Implement Oracle-Supplied Packages in Application Development

What are Oracle-Supplied Packages?

Examples of Some of the Oracle-Supplied Packages

How Does the DBMS_OUTPUT Package Work?

Use the UTL_FILE Package to Interact With Operating System Files

Invoke the UTL_MAIL Package

Write UTL_MAIL Subprograms

Hands-On

Unit 34: Dynamic SQL

The Execution Flow of SQL

What is Dynamic SQL?

Declare Cursor Variables

Dynamically executing a PL/SQL Block

Configure Native Dynamic SQL to Compile PL/SQL Code

Invoke DBMS_SQL Package

Implement DBMS_SQL with a Parameterized DML Statement

Dynamic SQL Functional Completeness

Hands-On

Unit 35: Design Considerations for PL/SQL Code

Standardize Constants and Exceptions

Understand Local Subprograms

Write Autonomous Transactions

Implement the NOCOPY Compiler Hint

Invoke the PARALLEL_ENABLE Hint

The Cross-Session PL/SQL Function Result Cache

The DETERMINISTIC Clause with Functions

Usage of Bulk Binding to Improve Performance

Hands-On

Unit 36: Triggers

Describe Triggers

Identify the Trigger Event Types and Body

Business Application Scenarios for Implementing Triggers

Create DML Triggers Using the CREATE TRIGGER Statement and SQL Developer

Identify the Trigger Event Types, Body, and Firing (Timing)

Statement Level Triggers Versus Row Level Triggers

Create Instead of and Disabled Triggers

How to Manage, Test, and Remove Triggers?

Hands-On

Unit 37: Create Compound, DDL, & Event Database Triggers

What are Compound Triggers?

Identify the Timing-Point Sections of a Table Compound Trigger

Compound Trigger Structure for Tables and Views

Implement a Compound Trigger to Resolve the Mutating Table Error

Compare Database Triggers to Stored Procedures

Create Triggers on DDL Statements

Create Database-Event and System-Event Triggers

System Privileges Required to Manage Triggers

Hands-On

Unit 38: The PL/SQL Compiler

What is the PL/SQL Compiler?

Describe the Initialization Parameters for PL/SQL Compilation

List the New PL/SQL Compile Time Warnings

Overview of PL/SQL Compile Time Warnings for Subprograms

List the benefits of Compiler Warnings

List the PL/SQL Compile Time Warning Messages Categories

Setting the Warning Messages Levels: Using SQL Developer, PLSQL_WARNINGS Initialization Parameter, and the DBMS_WARNING Package Subprograms

View Compiler Warnings: Using SQL Developer, SQL*Plus, or the Data Dictionary Views

Hands-On

Unit 39: Manage PL/SQL Code

What Is Conditional Compilation?

Implement Selection Directives

Invoke Predefined and User-Defined Inquiry Directives

The PLSQL_CCFLAGS Parameter and the Inquiry Directive

Conditional Compilation Error Directives to Raise User-Defined Errors

The DBMS_DB_VERSION Package

Write DBMS_PREPROCESSOR Procedures to Print or Retrieve Source Text

Obfuscation and Wrapping PL/SQL Code

Hands-On

Unit 40: Manage Dependencies

Overview of Schema Object Dependencies

Query Direct Object Dependencies using the USER_DEPENDENCIES View

Query an Object's Status

Invalidation of Dependent Objects

Display the Direct and Indirect Dependencies

Fine-Grained Dependency Management in Oracle Database 11g

Understand Remote Dependencies

Recompile a PL/SQL Program Unit

Hands-On

FAQs

1. How is the training organized? How much percentage is theoretical and how much is practical hands-on?

We at eMexo believe nothing beats hands-on practice when it comes to learning a concept. Our teaching methodology is 100% practical and hands-on oriented. You learn a concept, you practice it then and there with trainers. We also give you assignments for each topic which you can practice at home and any doubts regarding the topic can be cleared with the trainer the next day.

2. What is the course duration? How and when do you plan to complete the course?

We generally cover our courses in 30 hours, however, we know that we can't put a hard- stop to learning with a number. Our trainer will make sure that you have learned everything that is part of the curriculum. This could mean 28 hours or 35 hours, doesn't matter.

3. What is the material provided in the training?

We have industry standard course material which is used by our trainers to train you. At the end of the training, apart from the notes which you have taken during the course, we will also provide you with the training material which was used. This training material includes the training content, interview questions, etc.

4. Do you help in preparing for the interview?

Our trainers are working professionals who work in MNCs. They are the experts in their domain and they know exactly what an interviewer looks into a candidate. Our expert trainers apart from sharing the interview questions will also conduct mock interviews to help you prepare for the real interview.

5. Who are your trainers?

Our trainers are industry experts who work in their respective technologies day in and day out. They work in MNCs and are technology experts within their organizations.

6. **What is the total batch size per course?**

We maintain a strict batch size of a maximum of 5 students. We also provide exclusive one-to-one training as well. Talk to our training partner to get more details.

7. Do you provide certification for the course?

Yes, at the end of training we provide a certification of completion.

8. Will I be joining a new batch or being merged with another batch?

You will be added to a new batch.

9. Is fast-track training available?

Yes, we also provide fast-track training for those who want to complete the course faster. The curriculum and the total hours required to complete the course will remain the same. However, the trainer will be spending more hours with you to complete the course.

10. Do you assist in job placement?

Our trainers are expert professionals in their organizations and they often act as the interviewer to hire new candidates. Our trainers will help you prepare your resume with industry standards. After all, they know exactly what to look for in a resume.

11. Timings for training - Regular training/weekend training?

We provide both regular and weekend training. Talk to our training partner to learn more about the timings.

12. Will you be working on a live project during training?

Yes, apart from doing the hands-on practice our trainer will also be taking a real-world project and working with you on the implementation.

13. What happens if I miss a class?

If you miss a class the content of that class will be taught to you again. With us, you might miss a class but not the content.

14. Can I attend a demo before the actual class?

Yes, absolutely! Talk to our training counselor on the phone at **+91-9513216462** or email us at **info@emexotechnologies.com** to arrange a free demo. You can also fill in the contact us form below and we will call you to discuss your training requirements.