GETIN TECHNOLOGIES

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COURSE NAME: ORACLE TRAINING

Module 1

Visit our website for Course Fees and Course Duration

Placement Eligibility:

Eligible: Any Bachelor Degree, Any Master Degree, MBA

Not Eligible: Diploma

Class Mode:

Classroom | Online | Recorded Session | AI Session

If you have Completed Course, You want only Placements

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Training Partnership with RAMAUSSYS ACADEMY

Placement Partnership with RAMAUSSYS TECHNOLOGIES

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ORACLE COURSE 1 SYLLABUS

SQL:

Introduction to Databases and SQL

- Understanding the role of databases in information management
- Introduction to SQL and its importance in data querying
- Overview of popular relational database management systems (RDBMS)

SQL Basics

- SQL syntax and structure
- Data types and operators
- Creating, modifying, and deleting database objects (tables, views, indexes)
- Writing basic SQL statements (SELECT, INSERT, UPDATE, DELETE)

Querying Data

- Retrieving data with the SELECT statement
- Filtering data with the WHERE clause
- Sorting data with the ORDER BY clause
- Limiting and paging results with the LIMIT/OFFSET or FETCH/FIRST clauses

Data Filtering and Manipulation

- Using logical operators (AND, OR, NOT)
- Working with wildcards and pattern matching (LIKE)
- Performing calculations with expressions
- Using built-in SQL functions (e.g., string functions, date functions)

Aggregating Data

- Grouping data with the GROUP BY clause
- Applying aggregate functions (SUM, AVG, COUNT, MIN, MAX)
- Filtering grouped data with the HAVING clause
- Working with subqueries

Joining Tables

- Understanding relationships between tables
- Performing INNER, LEFT, RIGHT, and FULL JOINs
- Joining multiple tables in a single query
- Handling NULL values in joins

Modifying Data

- Updating records with the UPDATE statement
- Deleting records with the DELETE statement
- Inserting new data with the INSERT statement
- Transactions and data integrity

Creating and Managing Database Schema

- Designing a relational database schema
- Enforcing data constraints with keys (PRIMARY KEY, FOREIGN KEY)
- Normalization and denormalization concepts

Views and Indexes

- Creating and managing database views
- Utilizing indexes for performance optimization
- Understanding the benefits of indexing

Security and Access Control

- User roles and privileges
- Granting and revoking permissions
- SQL injection prevention

PLSQL:

Introduction to PL/SQL

- Understanding PL/SQL and its role in Oracle Database
- Advantages and use cases for PL/SQL
- PL/SQL vs. SQL: Key differences and similarities

PL/SQL Language Fundamentals

- PL/SQL block structure
- Variables and data types
- Constants and literals
- Operators and expressions

Control Structures

- Conditional control with IF-THEN-ELSE
- CASE statements
- Looping with WHILE and FOR loops
- EXIT and CONTINUE statements

Cursors in PL/SQL

- Implicit vs. explicit cursors
- Using cursors for data retrieval
- Cursor attributes (e.g., %NOTFOUND, %FOUND, %ROWCOUNT)
- Cursors FOR loops

Exception Handling

- Types of exceptions (system-defined and user-defined)
- Handling exceptions with EXCEPTION and WHEN
- Propagating exceptions
- Using PRAGMA EXCEPTION_INIT

Procedures and Functions

- Creating and executing procedures
- Parameters (IN, OUT, IN OUT)
- Functions vs. procedures
- Returning values from functions

Triggers

- What are triggers and their applications
- Trigger types (BEFORE, AFTER, INSTEAD OF)
- Trigger events (INSERT, UPDATE, DELETE)
- OLD and NEW values

PL/SQL Collections

- PL/SQL tables
- Varrays (variable-size arrays)
- Associative arrays (INDEX BY tables)
- Using collections for data manipulation

Dynamic SQL

- Building and executing dynamic SQL statements
- Using EXECUTE IMMEDIATE
- SQL injection prevention
- DBMS_SQL package

Error Handling and Logging

- Logging errors in PL/SQL
- Handling exceptions gracefully
- Writing to log tables
- Error codes and logging best practices

PL/SQL Security

- Security considerations and best practices
- Database privileges
- Granting execute privileges on PL/SQL objects
- Limiting SQL injection risks