TECHNICAL GUFTGU

(Established Under Ministry of Micro, Small and Medium Enterprises, Govt. of India)

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- ✓ Certificate provided
- ✓ Recordings Provided
- ✓ In Hindi/Urdu
- ✓ Expert Trainers

PL/SQL ORACLE DATABASE (12C)

Overview: Oracle 12c is a database technology used by organizations to store and manage data. It is a relational database management system (RDBMS) that is designed to store and manage large amounts of data. Oracle 12c is used by organizations to store and manage data in a secure and efficient manner. It is also used to create applications that can be used to access and manipulate data. Major vendors for Oracle 12c include Oracle, IBM, Microsoft, and SAP. Oracle 12c is used by organizations to store and manage data in a secure and efficient manner.

Pre- requisite – No Pre-requisite

Introduction: Introduction to Data and Database

Chapter 1: Introduction To SQL

1. Introduction Database
2. Understanding DBMS vs RDBMS
3. Gone through SQL Standards
4. Sub languages of SQL
5. Installation of 12c/19c
6. About SQL*Plus and use of developer tool
7. Datatypes in Oracle
8. Operators in Oracle
9. Understanding Schema design and objects

Chapter 2: Data Retrieval Techniques

1. How to use select statement in different ways to retrieve records?
2. Working with Column alias
3. Working with Table alias
4. Data filtering and sorting with in single table
5. Clauses and its types in oracle

Chapter 3: Working With DDL Commands

1. Table creation using CREATE statement
2. Creating table from another table
3. Dropping a table using DROP command
4. Altering the column of a table
5. Modifying the column datatype in a table
6. Renaming the column of a table
7. Renaming an entire table
8. Using truncate command
9. Difference between Delete and Truncate command

Chapter 4: Working With DML Commands

1. How to copy data from one table to another table?
2. How to copy the structure alone from a table?
3. Different types of inserting row to an existing table
4. Updating any value of with in a record using UPDATE command
5. Deleting a particular record from a table
6. Using merge & insert all command.

Chapter 5: Integrity Constraints

1. How to declare column level constraints?
2. How to declare row level constraints ?
3. How to add constraints to an existing table?
4. Types of integrity constraints
   - Not null
   - Unique key
   - Primary key
   - Referential integrity
   - Check integrity
5. How to enable and disable constraints?

6. How to get information about constraints?

Chapter 6: Built In Functions

1. Understanding Single row functions
2. How to use single row functions using dummy table?
3. Types of single row functions
   - String functions
   - Date functions
   - Mathematical functions
   - Conversion functions
   - Special functions
   - Analytical functions
4. Working with multi row functions.

Chapter 7: Data Aggregation

1. Working with aggregate function
   - Count()
   - Sum()
   - Max()
   - Min()
   - Avg()
2. Working with group by clause
3. Working with having clause
4. Difference between WHERE and HAVING clause

Chapter 8: Importance Of JOIN

1. Understanding joins and its uses
2. Types of joins
   - Equi join
   - Non – equi join
   - Self join
   - Outer join
   - Left & Right outer join
   - Full outer join
   - Cross join

Chapter 9: Set Operators And Pseudo Columns:

1. How to use set operators in a single table content?
2. Working with set operator types
   - UNION
   - UNION ALL
   - INTERSECT
   - MINUS
3. Working with pseudo columns using the following
   - ROWID
   - ROWNUM

Chapter 10: Sub Queries

1. Importance of sub queries
2. Using different types of sub queries
   - Single row sub queries
   - Multi row sub queries
   - Nested queries
   - Multi column sub queries
   - Correlated sub queries

Chapter 11: Design Of Schema Objects

1. Creating and working with Views
2. Working with Synonyms
3. Creating Index and clusters
4. Working with in materialized view
5. Understanding sequences and its types.

Chapter 12: Introduction To PL/SQL

1. Introduction to PL/SQL
2. Advantages of PL/SQL
3. Datatypes in PL/SQL
4. Program structure of PL/SQL
5. Embedding SQL statements
6. Using conditional statements and loops

Chapter 13: Creating And Using Cursors

1. What is cursor?
2. How to create cursor?
3. Using cursors in PL/SQL
4. How to create explicit cursor?
5. Creation of for loop cursor
6. What are cursor parameters?
7. How to use for update clause?
8. What is ref cursors?
9. How to use implicit cursors?

Chapter 14: Understanding Exception Handling

1. What is an Exception?
2. Describing Exception types
3. Handling system defined exceptions
4. Handling user defined exceptions?
5. Sql code vs Sql errm
6. Pragma exception_init

Chapter 15: Creation Of Stored Procedures

1. Creating procedures in Pl/SQL
2. Working with procedure parameters
   - IN parameter
   - OUT parameter

- INOUT parameter

3. How to create procedures with cursors
4. How procedures return records?
5. What is Pragma autonomous transaction?

Chapter 16: Creating & Using Functions

1. Importance of function
2. How to create functions?
3. Difference between procedures and functions
4. How to use inline functions?

Chapter 17: Creating & Using Packages

1. What is a Package?
2. Reasons to use packages
3. What is package specification?
4. What is package body?
5. How to instantiate package?
6. How to initialize instantiated package?
7. What are all the package state?

Chapter 18: Triggers In PL/SQL

1. How to create triggers?
2. Benefits of trigger
3. How to trigger a trigger?

Chapter 19: Collections In PL/SQL

1. What is collection?
2. How to use arrays?
3. Using nested tables
4. How to use index by value?
5. Listing types of collection methods.
6. Bulk collections.

KEY HIGHLIGHTS OF THIS TRAINING PROGRAM:

- ✓ Entire training programme is in Hindi Language for Better understanding.
- ✓ Special focus on Non technical and Fresher candidates.
- ✓ Provides Recording of each live session which you can access from anywhere anytime for One year.
- ✓ Interview Cracking tips during live sessions.
- ✓ Doubt clearing session will be provided.

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