

Oracle Curriculum (15 courses)

WT0950 Oracle 8i PL/SQL - Intro to RDBMS and SQL *Plus

1. [Contents](#)
2. [Description](#)
3. [Audience](#)
4. [Prerequisites](#)
5. [Topics Include](#)



Description

The course aims to familiarize you with the basic concepts of database design. The course also provides a brief overview of relational database model since the Oracle database is based on this model. The course familiarizes you with the use of SQL and SQL *PLUS commands. The course will enable you to construct queries using SELECT statement with clauses, such as, WHERE, ORDER BY, and DISTINCT. You would also be able to retrieve data from a database using arithmetic, logical, comparison, and SQL operators. Related Exam: Oracle Exam #1Z0-001: Introduction to Oracle: SQL and PL/SQL.

Audience

For IT Professionals who use Oracle 8i

Prerequisites

Some experience with Oracle 8i

Topics

Unit 1: RDBMS and SQL

- Database Design
- Entity Relationship Models
- Integrity Constraint Types
- SQL *Plus Commands

Unit 2: Basics of SQL

- SQL Commands: Categories
- SELECT Statement
- Arithmetic Expressions

Unit 3: Controlling Selected Rows

- Sorting a Database Table
- Restricting Rows

Unit 4: Operators

- Logical Comparison Operators
- SQL Comparison Operators
- NULL Operators
- Logical Operators
- SQL Operators: Sequencing

WT0960 Oracle 8i PL/SQL - Functions, Tables, and Groups

1. [Contents](#)
2. [Description](#)
3. [Audience](#)
4. [Prerequisites](#)
5. [Topics Include](#)



Description

This course covers the concepts of single row functions that enable the manipulation of data. The course essentially focuses on three single row functions: character functions, number functions, and date functions. The course also covers the concept of conversion that enables the conversion of a value from one datatype to another. The concept of retrieving data from more than one table by using join statements is also covered. Additionally, the course discusses group functions that operate on sets of rows to give one result. Related Exam: Oracle Exam #1Z0-001: Introduction to Oracle: SQL and PL/SQL.

Audience

For IT Professionals who use Oracle 8i

Prerequisites

Some experience with Oracle 8i

Topics

Unit 1: Single Row Functions

- Character Functions
- Number Functions
- Date Functions
- Nested Single Row Functions

Unit 2: Conversion Functions

- TO_CHAR function
- TO_NUMBER Function
- TO_DATE Function

Unit 3: Display Data From Multiple Tables

- Join Types
- Simple Join Statements
- Non-Equijoin
- Self Joins

Unit 4: Working With Groups

- Group Functions
- GROUP BY Clause
- Groups Within Groups
- Invalid Queries
- HAVING Clause

WT0970 Oracle 8i PL/SQL - Adv SQL, SQL *Plus & Data Dictionary

1. [Contents](#)
2. [Description](#)
3. [Audience](#)
4. [Prerequisites](#)
5. [Topics Include](#)



Description

In this course, you will learn to create subqueries and queries using SET operators. The course describes the SQL *PLUS file commands and SET commands that are used to customize the SQL *PLUS environment. Furthermore, the course discusses the SQL *Plus format commands and script files. The concept of data dictionary tables and views is also covered in the course. Related Exam: Oracle Exam #1Z0-001: Introduction to Oracle: SQL and PL/SQL.

Audience

For IT Professionals who use Oracle 8i

Prerequisites

Some experience with Oracle 8i

Topics

Unit 1: Subqueries

- Subqueries: Overview
- Single and Multiple Row Subqueries
- Nested Subqueries
- Multiple Column Subqueries
- Subqueries with Comparison Operators
- Set Operators

Unit 2: SQL *Plus Commands

- SQL *Plus File Commands
- Formatting using SQL *Plus SET Commands
- Controlling Display using SQL *Plus SET Commands

Unit 3: Creating Reports

- SQL *Plus Format Commands
- Script Files
- Substitution Variables

Unit 4: Data Dictionary

- Oracle Data Dictionary Views
- Querying Oracle Data Dictionary

WT0980 Oracle 8i PL/SQL - DML and DDL Statements

1. [Contents](#)
2. [Description](#)
3. [Audience](#)
4. [Prerequisites](#)
5. [Topics Include](#)



Description

This course introduces the DDL and DML statements. It explains the concept of creation of tables and views. It also covers the various commands for manipulating a database. In addition, the course explains the transaction processing features. It highlights the concept of altering a table definition in a database, dropping a table, adding comments to a table, and renaming a table. It describes the various methods of managing constraints related to a table. Related Exam: Oracle Exam #1Z0-001: Introduction to Oracle: SQL and PL/SQL.

Audience

For IT Professionals who use Oracle 8i

Prerequisites

Some experience with Oracle 8i

Topics

Unit 1: Creating Tables and Views

- Oracle Datatypes
- Creating Tables
- Creating Tables From Other Tables
- Creating Views
- Modifying Views

Unit 2: Manipulating Data

- Inserting Rows into a Table
- Updating Rows in a Table
- Deleting Rows from a Table
- Controlling Transactions

Unit 3: Altering Tables

- Altering Columns in a Table
- Removing a Table
- Managing Comments

Unit 4: Altering Constraints

- Constraints
- Adding a Constraint
- Dropping a Constraint
- Managing Constraints

WT0990 Oracle 8i PL/SQL - Database Objects and Security

1. [Contents](#)
2. [Description](#)
3. [Audience](#)
4. [Prerequisites](#)
5. [Topics Include](#)



Description

This course is aimed at familiarizing the learner with the inbuilt objects and security options in Oracle. The course includes creating and managing sequences, indexes, and users. It also includes PL/SQL block, PL/SQL records and tables, PL/SQL variables and datatypes. Related Exam: Oracle Exam #1Z0-001: Introduction to Oracle: SQL and PL/SQL.

Audience

For IT Professionals who use Oracle 8i

Prerequisites

Some experience with Oracle 8i

Topics

Unit 1: Sequences

- Creating a Sequence
- Referencing Sequence Values
- Altering a Sequence

Unit 2: Indexes

- Indexes: Types
- Creating an Index
- Removing an Index
- Other Database Objects

Unit 3: Controlling User Access

- Creating a Synonym
- Creating a User
- System Privileges
- Object Privileges

Unit 4: PL/SQL An Introduction

- PL/SQL Benefits
- Using the PL/SQL Block Structure
- Using PL/SQL Records
- Using PL/SQL Tables

Unit 5: Datatypes and Variables

- Declaring Variables
- Declaring Datatypes
- Assigning Values to Variables
- Executable Statements

WT1000 Oracle 8i PL/SQL - Oracle PL/SQL Basic Operations

1. [Contents](#)
2. [Description](#)
3. [Audience](#)
4. [Prerequisites](#)
5. [Topics Include](#)



Description

The course is aimed at familiarizing the learner with the basic concepts of PL/SQL. It describes the different datatypes and variables available with PL/SQL. The course provides an overview of PL/SQL records and tables, and explains how to access a database from PL/SQL. It also describes the steps to write conditional constructs and controlling structures in PL/SQL along with different types of explicit cursors and their controlling parameters. Finally the course would enable the learner to identify exceptions, trap those exceptions, and handle the un-handled exceptions. Related Exam: Oracle Exam #1Z0-001: Introduction to Oracle: SQL and PL/SQL.

Audience

For IT Professionals who use Oracle 8i

Prerequisites

Some experience with Oracle 8i

Topics Include

Unit 1: Accessing Databases Using PL/SQL

- Retrieving Data Using PL/SQL
- Manipulating Data Using PL/SQL
- Controlling Transactions

Unit 2: Controlling Structures in PL/SQL

- Using Conditional Constructs
- Using Boolean Conditions
- Working with Loop Statements

Unit 3: Working with Cursors

- Defining Cursor Types
- Processing of Implicit Cursors
- Controlling Explicit Cursors
- Using Explicit Cursor Attributes
- Working with Advanced Explicit Cursors
- Using the Cursor FOR Loop
- Using the SELECT FOR UPDATE Cursor

Unit 4: Handling Exceptions in a PL/SQL Block

- Raising Exceptions
- Trapping Exceptions
- Handling Unhandled Exceptions

WT1010 Oracle 8i DBA - Introducing Procedure Builder

1. [Contents](#)
2. [Description](#)
3. [Audience](#)
4. [Prerequisites](#)
5. [Topics Include](#)



Description

This course aims to introduce you to the various components of Procedure Builder. It explains the features of the Procedure Builder components, such as the Object Navigator, the PL/SQL Interpreter, the Program Unit Editor, the Stored Program Unit Editor, and the Database Trigger Editor. It describes how you can use the components of Procedure Builder to create, debug, and execute program units. Related Exam: Oracle Exam #1Z0-001: Introduction to Oracle: SQL and PL/SQL.

Audience

For IT Professionals who use Oracle 8i

Prerequisites

Some experience with Oracle 8i

Topics

Unit 1: Procedure Builder Fundamentals

- Introducing Procedure Builder Components
- Using the Object Navigator
- Managing the Object Navigator Objects
- Using the PL//SQL Interpreter
- Using the Program Unit Editor
- Using the Stored Program Unit Editor
- Using the Database Trigger Editor

Unit 2: Subprograms

- Introducing Subprograms
- Creating Stored Procedures
- Executing Procedures
- Creating Functions
- Executing Functions
- Creating Packages

Unit 3: Debugging Program Units

- Debugging Theories
- Setting Breakpoints
- Setting Debug Triggers
- Examining Local Variables
- Debugging Stored Program Units

WT1020 Oracle 8i DBA - Oracle Server and Database Architecture

1. [Contents](#)
2. [Description](#)
3. [Audience](#)
4. [Prerequisites](#)
5. [Topics Include](#)



Description

This course is aimed to familiarize you with the basic concepts of Oracle 8i Architecture and Oracle Enterprise Manager. This course will introduce you to the concepts of Oracle instances and SGA components. You will learn to identify the memory structures and processes involved with an Oracle instance. You will be introduced to the Oracle Universal Installer and be able to explain the Optimal Flexible Architecture. This course will introduce you to the necessary components needed to implement a database server, including user validations and the user database accounts. Two processes of user authentication will be explained. This course will also familiarize you with the components of the Oracle Enterprise Manager. The use of the Configuration Assistant and tools of the DBA management pack will be explained. You will learn how to connect to an Oracle database. You will also learn to identify the different stages in the processing of SELECT query statements, DML statements, and COMMIT statements.

Audience

For IT Professionals who use Oracle 8i

Prerequisites

Some experience with Oracle 8i

Topics

Unit 1: Oracle Architecture

- An Overview of the Oracle Architecture
- Oracle Database Files
- Components of the SGA and PGA
- Oracle Background Processes
- Oracle SGA and Memory Structures

Unit 2: Implementing the Database Server

- Oracle Universal Installer
- Optimal Flexible Architecture
- The Database User Accounts
- Implementing Operating System Authentication
- Implementing Password File Authentication

Unit 3: Oracle Enterprise Manager

- Introduction to the Oracle Enterprise Manager
- Using the OEM Console
- Using the Configuration Assistant
- DBA Management Pack

Unit 4: Interacting with the Database

- Processing SQL Statements
- Select Query Processing
- DML Processing
- COMMIT Processing

WT1030 Oracle 8i DBA - Oracle Instance, the Start-up and Shutdown Procedure

1. [Contents](#)
2. [Description](#)
3. [Audience](#)
4. [Prerequisites](#)
5. [Topics Include](#)



Description

The course is aimed at familiarizing the learner with the Oracle instance. It teaches you the learner about the startup and shutdown processes and the different stages of startup and shutdown. The course also provides a list of data dictionary views that help in performing administrative tasks. The course initiates the learner into hands-on learning by helping you the learner type in the commands used to perform administrative tasks. Related Exam: Oracle Exam #1Z0-023: Oracle 8i: Architecture and Administration.

Audience

For IT Professionals who use Oracle 8i

Prerequisites

Some experience with Oracle 8i

Topics

Unit 1: Oracle Instances

- The Initialization Parameter File
- The Startup and the Shutdown Process
- Starting up an Instance
- Changing Database Availability
- Shutting Down an Instance

Unit 2: Controlling Oracle at Runtime

- Dynamic Performance Views
- Dynamic Initialization Parameters
- Managing Sessions
- Terminating Sessions
- Alert and Trace Files

Unit 3: Creating Databases

- Preparing for a Database
- Database Configuration Assistant
- Database Creation: Initial Steps
- Database Creation: the CREATE DATABASE Command

WT1040 Oracle 8i DBA - Data Dictionary and Database Files

1. [Contents](#)
2. [Description](#)
3. [Audience](#)
4. [Prerequisites](#)
5. [Topics Include](#)



Description

The course is aimed at familiarizing the student with the Data Dictionary views and database files. The course enables the learner to manage log and control files. The uses and contents of control files will be discussed, as well as obtaining information from control files. The planning, use, and troubleshooting of redo log files will also be explained. The course also provides a list of Data Dictionary views that help in performing these administrative tasks. The course initiates the student learner into hands-on learning by helping them you to type in the commands to perform administrative tasks. You will learn to administer stored procedures and packages. Related Exam: Oracle Exam #1Z0-001: Introduction to Oracle: SQL and PL/SQL.

Audience

For IT Professionals who use Oracle 8i

Prerequisites

Some experience with Oracle 8i

Topics

Unit 1: The Oracle Data Dictionary

- An Overview of the Data Dictionary
- Data Dictionary Views
- Data Dictionary View: Categories

Unit 2: Standard Packages and Objects

- Stored Program Units
- Packages
- Dependency information
- Triggers

Unit 3: Control Files

- Introduction to Control Files
- Adding Control Files

Unit 4: Log Files Concepts

- Introduction to Log Files
- Writing to Log Files
- Archiving Redo Log Files
- Planning and Troubleshooting Redo Logs

Unit 5: Working with Log Files

- Redo Log Groups
- Redo Log Members
- Relocating and Renaming Log Files
- Log Miner

WT1050 Oracle 8i DBA - Oracle Storage Architecture

1. [Contents](#)
2. [Description](#)
3. [Audience](#)
4. [Prerequisites](#)
5. [Topics Include](#)



Description

This course is designed to give an Oracle DBA the necessary knowledge and skills to manage data storage. It will provide detailed information about logical structures such as tablespaces, segments, extents, and Oracle data blocks. The creation and management of rollback segments will also be covered. The course also provides a list of data dictionary views that help in managing these logical structures. The course initiates youthe learner into hands-on learning by helping you the learner to type-in the commands to perform administrative tasks. Related Exam: Oracle Exam #1Z0-023: Oracle 8i: Architecture and Administration.

Audience

For IT Professionals who use Oracle 8i

Prerequisites

Some experience with Oracle 8i

Topics

Unit 1: Tablespaces

- Database Storage Hierarchy
- An Overview of Tablespaces
- Creating Tablespaces
- Altering Tablespaces

Unit 2: Datafiles

- Automatically Resizing Tablespaces
- Manually Resizing Tablespaces
- Moving Datafiles
- Maintaining Tablespaces Guidelines

Unit 3: Logical Structures

- Introduction to Segments
- Extent Allocation
- Data Blocks
- Storage Structures Information
- Planning Segment Allocation

Unit 4: Rollback Segment Concepts

- An Overview of Rollback Segments
- Allocating Rollback Segments
- Planning Rollback Segments

Unit 5: Working with Rollback Segments

- Creating Rollback Segments
- Modifying Rollback Segments
- Changing the Status of Rollback Segments
- Obtaining Information About Rollback Segments
- Troubleshooting Rollback Segments

WT1060 Oracle 8i DBA - Understanding Storage Allocation

1. [Contents](#)
2. [Description](#)
3. [Audience](#)
4. [Prerequisites](#)
5. [Topics Include](#)



Description

This course covers the various aspects of optimizing database objects. It discusses tables, clusters, and index-organized tables. This course explains the different types of tables supported by Oracle 8i, the structure of a row, the different data types supported by Oracle 8i, and the guidelines to create a table. Further, the course covers how to create the cluster, the cluster index, and the tables in the cluster. The course also covers how to create and manage the index-organized tables. Related Exam: Oracle Exam #1Z0-023: Oracle 8i: Architecture and Administration.

Audience

For IT Professionals who use Oracle 8i

Prerequisites

Some experience with Oracle 8i

Topics

Unit 1: Tables

- Introduction to Tables
- Introduction to Oracle 8i Datatypes
- Creating Tables
- Managing Storage Parameters for Tables

Unit 2: Managing Tablespaces

- Changing Storage Parameters
- Allocating Extents Manually
- Reorganizing Tables
- Deallocating Unused Space

Unit 3: Tables: Deleting

- Truncating a Table
- Dropping a Column
- Dropping a Table
- Table Information

Unit 4: Clusters And Index Organized Tables

- Clusters
- Creating Index Clusters
- Creating Hash Clusters
- Maintaining Clusters
- Index Organized Tables
- Creating Index Organized Tables

WT1070 Oracle8i DBA: Indexes and Constraints

1. [Contents](#)
2. [Description](#)
3. [Audience](#)
4. [Prerequisites](#)
5. [Objectives](#)
6. [Topics Include](#)



Description

In this course you will learn to create indexes and enforce various constraints. The course describes the reorganization of indexes, managing indexes, and maintaining constraints. You will also learn how to obtain information about indexes and constraints from the data dictionary. Related Exam: Oracle Exam #1Z0-023: Oracle 8i: Architecture and Administration.

Audience

This course is designed for database administrators, application developers, business and systems analysts, MIS managers and technical support professionals and ordinary Oracle users. It will prepare students for the Oracle8i: Architecture and Administration Exam.

Prerequisites

The audience should be familiar with RDBMS concepts, Graphical User Interfaces (GUIs), SQL and basics of PL/SQL.

Objectives

- Create and manage indexes
- Identify types of constraints
- Create and manage constraints

Topics

Unit 1: Indexes

- An Index Overview
- Creating Indexes
- Reorganizing Indexes
- Dropping Indexes
- Obtaining Information About Indexes

Unit 2: Constraint Concepts

- Constraint Overview
- Key Constraints

Unit 3: Working with Constraints

- Implementing Constraints
- Managing Constraints
- Using the Exceptions Table
- Obtaining Information About Constraints

WT1080 Oracle 8i DBA - Managing Oracle Database Security

1. [Contents](#)
2. [Description](#)
3. [Audience](#)
4. [Prerequisites](#)
5. [Topics Include](#)



Description

This course is aimed to familiarize the learner with the basic concepts of Oracle 8i administration of security, user, roles, and resources. The course also provides a list of data dictionary views that help in performing administrative tasks. The course initiates the learner into hands-on learning by helping the learner to type-in the commands to perform administrative tasks. Related Exam: Oracle Exam #1Z0-023: Oracle 8i: Architecture and Administration.

Audience

For IT Professionals who use Oracle 8i

Prerequisites

Some experience with Oracle 8i

Topics

Unit 1: Managing Password Security

- A Profile Overview
- Implementing Password Security
- Creating Profiles and Setting Passwords

Unit 2: Managing Resources

- Using Profiles to Control Resource Use
- Managing Profiles
- Obtaining Profile Information

Unit 3: Managing Users

- Creating Users
- Altering Users
- User Information

Unit 4: Managing Privileges

- System Privileges
- Controlling Authentication
- Revoking System Privileges
- Object Privileges
- Revoking Object Privileges

Unit 5: Auditing

- An Auditing Overview
- Enabling Auditing

Unit 6: Managing Roles

- Introduction to Roles
- Creating Roles
- Controlling Roles Availability
- Role Guidelines

WT2610 Oracle8i DBA--SQL*Loader, Oracle Export and Import, and NLS

1. [Contents](#)
2. [Description](#)
3. [Audience](#)
4. [Prerequisites](#)
5. [Topics Include](#)



Description

The course is aimed at familiarizing you with the data transfer tools of Oracles. The course will teach you how to use SQL*Loader to load data into an Oracle database. The course will also teach you how to use the Oracle Export and Import Utilities. Next, the course will detail explain the NLS feature of Oracle8i. The course initiates the learner into hands-on learning by helping the learner to type-in the commands to perform administrative tasks. Related Exam: Oracle Exam #1Z0-023: Oracle 8i: Architecture and Administration.

Audience

For IT Professionals who use Oracle 8i.

Prerequisites

Some experience with Oracle 8i.

Topics

Unit 1: Loading Data

- Direct-Load Insert
- SQL*Loader
- Using SQL*Loader
- SQL*Loader Guidelines

Unit 2: Exporting and Importing Data

- Export and Import Utility
- Using Export and Import Utilities
- Export and Import Guidelines
- Transporting Table spaces

Unit 3: National Language Support

- Introduction to NLS
- Selecting a Character Set
- Specifying Language Dependent Behavior
- NLS Parameters
- Getting Information About NLS