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Learn at a time and place, and pace that is of your choice.

Plan your study to suit your convenience and schedule.

# SQL Certification Course

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Email Contact: [info@educba.com](mailto:info@educba.com)



# EDUCBA

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[www.educba.com](http://www.educba.com)

# Course Overview

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In this Course you get to learn:

You get to learn essential and advanced concepts of Oracle SQL, Microsoft SQL right from scratch, you also understand PL/SQL, SQLite Database, Android SQLite for database testing.

In the contemporary era, where websites or web application is all about data, we must need something that can let us work with data, process it, store it and can generate useful information for the users dynamically.

# SQL Certification Skills

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You get to learn about the below skills:

Give you exposure to live working with the database.

Learn how to use the structured query language in order to solve complex business problems.

Go through several examples that will strengthen your skill in SQL database in various ways.

We will be using PL/SQL here to know how the database and programming language

# Course Features

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Course Duration-  
65+ Hours



Number of Courses



Verifiable  
Certificates



Lifetime Access



Technical  
Excellence

# About SQL Course

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The SQL Database may be defined as the relations database management system where the data is supposed to be stored in a tabular manner.

It is called SQL database as it needs the structured query language to work with the database.

The SQL queries are used to interact with the database and to process the data stored in it. In simple terms, every kind of communication with the

# SQL Certification Course

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This is a Bundle Course that includes complete in-depth Become SQL Training Course combined into one Complete Course.

This Bundle perfectly meets the requisite of the industry and gives you a better chance of being hired as Become SQL professional.



# SQL Comprehensive Training

## Section 1. Oracle 9i Introduction

- ER Modeling
- Data Storage on Different Media
- RDBMS and SQL
- Select Statement with Column Alias and Arithmetic operators
- Concatination Operator,Literal, Eliminating Duplicate rows
- SQL iSQLplus and Displaying Table Structure
- Basic SQL Select Statements-Practical Examples
- Writing Basic SQL Select Statements
- Where Clause and Comparison Conditions and other.

## Section 2. Displaying and Aggregating Data, Subqueries

- Cartesian Product, EquiJoin
- Non Equi, Outer and Self Joins
- SQL 1999 Complaint Joins
- Creating Three-Way Joins with the ON Clause
- Displaying Data from Multiple Tables
- Create Query
- Group Functions Syntax
- MIN and MAX Functions and other

## Section 3 . Producing Readable Output, Manipulating Data

- Substitution Variables
- Verify,Column,Break,Ttitle,Btitle commands
- Producing Readable Output with iSQL-Practical Examples
- Producing Readable Output with iSQL- Examples
- Objectives and Insert Statement
- Update, Delete and Merge
- The UPDATE Statement Syntax
- Database Transaction
- ROLLBACK Statements
- Manipulating Data-Session 8 Practical 1 and other.



# SQL Comprehensive Training

## Section 4 . Views, Database Objects, User Access

- Creating, Modifying and Querying Views
- Complex Views, Denying DML, Inline Views and Top n Analysis
- Complex Views, Denying DML, Inline Views and Top n Analysis part summary
- Creating Views
- Creating Sequence, Modifying
- NEXTVAL and CURRVAL Pseudocolumns
- Indexes and Synonyms
- Other Database Objects-Practical Examples
- Other Database Objects-Additional Examples
- Controlling User Access and other

## Section 5 . Displaying and Aggregating Data, Subqueries

- Cartesian Product, EquiJoin
- Non Equi, Outer and Self Joins
- SQL 1999 Complaint Joins
- Creating Three-Way Joins with the ON Clause
- Displaying Data from Multiple Tables 1
- Displaying Data from Multiple Tables 2
- Displaying Data from Multiple Tables 3
- Create Query 01
- Create Query 02
- Group Functions Syntax
- MIN and MAX Functions and other

## Section 6 . Datetime functions, Advances DML Operations

- Extract and Other timestamp data types
- Oracle9i Datetime Functions
- Oracle9i Datetime Functions- Additional Practice
- Group, Having, Group by, Rollup and Cube
- Grouping Functions, Grouping Set and other

## Section 1. Use of Functions

- Going to Learn Database to Database Transformation
- How To Use Count And Countdistinct
- Use of Aggregate Data Transformation Support
- How to Input a Data from Database to Text
- Going to Learn Groupby Function
- Using Maxmin and Sum Function
- Audit
- How to use Copy Column
- How to use Data Conversion
- How to use Derived Column
- How to use Lowerto Upper
- How to use Upper to Lower and other

## Section 2. Introduction

- More Details On SSIS
- Introduction to SSIS

## Section 3. Data Viewer

- How to use Data Viewer Using Column
- How to use Data Viewer Using Grid
- How to use Data Viewer Using Histogram
- How to use Dataviewer Using Scatter

## Section 4. More use of Functions

- How to use Fuzzy Grouping
- How to use Fuzzy Lookup
- How to use Lookup Transformation
- How to use Percentage Sampling
- How to use Pivot Data Transformation
- How to use Rowsampling
- How to use Term Extraction
- How to use Term Lookup
- How to use Unpivot
- How to use Create Delete Tableusing Execute SQLTask
- How to use Execute SQLTask
- Praticals on Execute SQL Task
- How to use File System Task and other

## Section 1 . Creating Database Triggers

- Creating, Modifying and Querying Views
- Complex Views, Denying DML, Inline Views and Top n Analysis
- Creating Views-Practical Examples
- Creating Sequence, Modifying
- NEXTVAL and CURRVAL Pseudocolumns
- Indexes and Synonyms
- Other Database Objects-Practical Examples
- Controlling User Access and other

## Section 2 . Manipulating Large Objects

- Manipulating Large Objects
- Removing LOBs and Temporary LOBs
- DBMS\_LOB READ and DBMS\_LOB WRITE
- Loading BFILEs & Migrating from LONG to LOB
- DIRECTORIES, BFILENAME functions
- Internal LOBs
- LOBs and BFILEs

## Section 3 .Creating Packages

- Oracle Supplied Packages
- UTL\_HTTP and UTL\_TCP
- Using the DBMS\_OUTPUTPackage
- Submitting Jobs, UTL\_FILES and Exceptions in UTL\_FILES
- Using DBMS\_SQL
- DBMS\_SQL,DBMS\_DDL and DBMS\_JOB
- Controlling the Persistent State of a Package Cursor
- User Defined Packages , PACK\_Cur
- Overloading, Forward Declarations
- Overloading and other

## Section 4 . Managing Subprograms

- User Source, User errors and Debugging
- Managing Subprograms
- Required Privileges, Invokers Rights and User Objects

## Section 5 . Creating Functions

- Creating Functions
- Invoking Functions, Removing Functions and Benefits summary
- Invoking Functions, Removing Functions and Benefits
- Creating a Stored Function by Using iSQLPlus
- Overview of Stored Functions

## Section 6 . Creating Procedure

- Creating Procedures
- Invoking Procedure, Handled and Unhandled Exception and Removing Procedure
- Methods for Passing Parameters
- Formal Versus Actual Parameters
- Out Parameters, In OUT Parameters and Declaring Sub Programs
- Procedures, Syntax, Parameters, In Parameters and other.



## Section 4 . Writing Explicit Cursors

- Handling Exceptions
- Trapping User-Defined Exceptions
- Non predefined Error
- Exception, Trapping Predefined Exception
- The WHERE CURRENTOF Clause
- Advanced Explicit Cursor Concepts
- Advanced Explicit Cursor
- Writing Explicit Cursors
- Cursors and Records
- Fetching Data from the Cursor
- Explicit Cursor, Records and For Loops
- Cursors, Declare, Open and Fetch cursors

## Section 5 . Working with Composite Data Types

- Working with Composite Data Types
- Creating and Using Index By Table
- Creating and Using Index By Table (summary)
- PLSQL record and rowtype Attribute

## Section 6 . Writing Control Structures

- Practical Examples Session 4-1
- Practical Examples Session 4-2
- WHILE Loops
- Writing Control Structures
- If Statements and Case Expressions
- Logic Tables and Iterative Constructs

## Section 7 . Interacting with the Oracle Server

- Practical Examples Session 3 - 2
- Practical Examples Session 3 - 1
- SQL Cursor
- Manipulating Data, Naming Conventions
- SQL Statements and Naming Conventions

## Section 8 . Declaring Variables

- Practical Examples Session 2
- Nested Blocks, Identifiers, Programming Guidelines
- PLSQL Block Syntax, SQL function in PLSQL
- Declaring Variables

## Section 9 . Block Type and Scalar Data

- Percentage type Attributes, Composite Data Types
- Base scalar data types
- Naming Rules, Scalar Data types
- PLSQL Block Structure, Block Type and Program Structure count..

## Section 10 . PL/SQL, Variables, Executable Statements and Control

- Benefits of Sub programs , Invoking Procedures and Functions
- About PLSQL Environment and Benefits

## Section 11 . Managing Dependencies

- Managing Dependencies
- Displaying Direct Dependencies by Using USER\_DEPENDENCIES
- REMOTE\_DEPENDENCIES\_MODE Parameter
- Signature Mode & Recompiling a PLSQL Program Unit

# 4

# Oracle Database Admin DBA 1 Course

## Section 1. Managing Password Security and Resources

- Practical Examples Session 14
- Resource Plan Directives
- Profiles and Password Management  
Count
- Alter, Drop Profile
- Profiles and Password Management

## Section 2 .Managing Indexes

- Practical Examples Session 13
- Enabling Constraints
- Types of Constraints ,  
Constraints States
- Types of Constraints ,  
Constraints States Count
- Defining Constraints
- Changing Storage Parameters  
for Indexes Count
- Practical Examples Session 12
- Creating Btree and Bitmap  
Index
- Changing Storage Parameters  
for Indexes
- Btree Index

## Section 3 . Managing Undo Data

- Practical Example Session 11
- ROWID Format, Structure of a Row
- Dropping a Table
- Truncating , Dropping Table
- Creating a Table
- Oracle Built-in Data Types
- Storing User Data
- Practical Example Session 10
- Automatic Undo Management Sizing  
an UNDO Tablespace
- Managing Undo Data
- Types of Undo Segments
- Automatic Undo Management  
Altering an UNDO Tablespace

# 4

## Oracle Database Admin DBA 1 Course

### Section 4. Managing Tablespaces and Datafiles

- Manual Data block Management and Practical Examples
- Storage Clause Precedence
- Non Standard Block Size, Database Block Contents
- Types of Segments
- Managing Tablespaces and Datafiles- Practical 02
- Managing Tablespaces and Datafiles- Practical 01
- Resizing, Dropping and Obtaining Tablespace information and other
- 
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### Section 5 . Maintaining the Control File

- Practical Examples Session 7
- Managing Online Redo Log Files
- Dropping Online Redo Log Files
- Practical Examples Session 6
- Maintaining Redo Log Files
- Maintaining the Control File Count
- Maintaining the Control File

### Section 6 . More Concept to Oracle Paper 3

- Practical Examples session 5
- Dynamic Performance Tables
- Data Dictionary
- Creating a Database 01
- Creating a Database 02
- Creating a Database using OMF, Troubleshooting and After Database Creation
- Create Database Using DCA And Manually
- Using Password File Authentication & Creating a Database
- Managing and Organizing a Database

# 4

## Oracle Database Admin DBA 1 Course

### Section 7. Introduction to Oracle Paper 3

- Program Global Area
- Redo Log Buffer, Large Pool and Java Pool
- SGA, Shared Pool, Library Cache
- Oracle Server, Instance and Database
- Introduction

### Section 8 . Managing Users and Privileges

- Users and Security
- Creating a New User Operating System Authentication
- Practical Examples Session 15
- Granting and Revoking System Privileges

## Section 1. Introduction to SQL commands

- Introduction to SQL commands
- The Basic SELECT Statement
- Basic SELECT Statement, DUAL Table

## Section 2. NULL in SQL

- NULL in SQL
- Number based Comparisons

## Section 3. Sorting rows in SQL

- Sorting rows in SQL
- The ORDER by Clause
- ORDER by clause, Summary

## Section 4. Comparison Operators

- Comparison Operators part 1
- Comparison Operators part 2
- Comparison Operators part 3
- Comparison Operators part 4

## Section 5. Character functions

- Character functions Part 1
- Character functions Part 2
- Character functions Part 3
- Character functions Part 4
- Character functions Part 5
- Character functions Part 6
- Character functions Part 7
- Character functions Part 8
- Character functions Part 9
- Character functions Part 10
- Character functions Part 11

## Section 6 . Number Functions

- Number Functions Part 1
- Number Functions Part 2
- Number Functions Part 3
- Number Functions Part 4
- Number Functions Part 5

## Section 7 . Working with Dates

- Working with Dates Part 1
- Working with Dates Part 2
- Working with Dates Part 3
- Working with Dates Part 4
- Working with Dates Part 5

## Section 8 . Date Arithmetic

- Date Arithmetic Part 1
- Date Arithmetic Part 2

## Section 9 . Explicit Conversion Functions

- Explicit Conversion Functions Part 1
- Explicit Conversion Functions Part 2
- Explicit Conversion Functions Part 3
- Explicit Conversion Functions Part 4

## Section 10 .General Functions and Conditional Functions

- General Functions
- Conditional functions Part 1
- Conditional functions Part 2
- Conditional functions Part 3

## Section 11. Group functions

- Group functions Part 1
- Group functions Part 2
- Group functions Part 3
- Group functions Part 4
- Group functions Part 5
- Group functions Part 6

## Section 12. Creating and Restricting Groups of Data

- Creating and Restricting Groups of Data Part 1
- Creating and Restricting Groups of Data Part 2
- Creating and Restricting Groups of Data Part 3
- Creating and Restricting Groups of Data Part 4



# 6

# SQLite Database

## Section 1. Introduction

- Introduction to SQLite Database
- About SQLite Database

## Section 2. Initial Project Setup

- Create SQLite Project Setup

## Section 3. Add and Update Record

- Add and Fetch Record
- Update Record

## Section 4. Delete Records and Export DB

- Deleted Records
- Export DB

# 7

# SQL and Database Testing

## Section 1 . Introduction

- Introduction to Database Testing
- What is RDBMS
- SQL Command and Terminologies

## Section 2. Database Testing

- Introduction to SQL
- Creating a Database Table

## Section 3. Database Testing Constraints

- DDL Constraint
- DDL Constraint Continues
- Create Table and Constraint
- Foreign Key Constraint
- Foreign Key Constraint Continues
- Select From Statement

## Section 4 . Database Testing DDL

- General Functions
- Conditional functions

## Section 5 . Database Testing DDL

- Dropping Column Using Alter
- Data Manipulation language (DML)
- Delete and Select Syntax in DML
- Delete and Select Syntax in DML Example

## Section 6 . Database testing Queries

- Data Testing Queries
- More on Data Testing Queries
- Order By Clause in Testing Queries
- Where Clause in Testing Queries
- Where Clause using Like Operator
- Where Clause using IN Operator
- Where Clause using Concat Operator
- Inner Joins Syntax in Database Testing
- Left Joins Syntax in Database Testing
- More on Joins in Database Testing



# SQL and Database Testing

## Section 7. Database Fundamental SQL Elements

- Database Fundamental and SQL Elements
- Triggers in SQL

## Section 8. SQL String Numeric Functions

- Functions in MySQL
- Fields Function in MySQL
- Subtract Function in SQL
- Floor Function in SQL

## Section 9 . SQL Date Null Functions

- Date Function in SQL Testing
- Null Function in SQL Testing

## Section 10 . Database Testing Data Control Language

- Data Control Manager in SQL Database Testing
- More on Data Control Manager in SQL Database Testing
- Creating User in Data Control Manager

## Section 11 . Database testing Transaction Control Language

- Transaction Control Language

## Section 1. Android SQLITE Database

- Introduction to Sqlite Database
- Example to Sqlite Database

## Section 2. Sqlite Database


- Table create and Insert Data in Sqlite Data Base
- Running Demo and Export Sqlite File
- Data Base Data Listing UI
- Implementing Code for Listing
- Convert Student List to Custom List
- Running Demo of Student List
- Sqlite Update Operation
- Update Values Setup

## Section 3. Copy Predefine Data

- Copy Predefine Data Base from Assets
- Implementation of Copy Predefine Data Base from Assets
- Implement Copy Assets to Internal Storage
- UI Design for Login Application
- Make Query on Internal Storage Database
- Validating and Navigate to Welcome Screen

## Section 4. Sqlite Open Helper

- Sqlite Open Helper Basic Introduction
- Implementing Sqlite Open Helper
- Operation with Sqlite Open Helper
- Add Contacts Data in Database Using Open Helper
- More on in Database Using Open Helper
- Display Data List Click with Confirm Alert
- Delete Data List Click with Confirm Alert
- Update Data with Custom Alert Dialog
- Refresh List with Custom Alert Dialog



# Frequently Asked Questions

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## Why Should I learn SQL Database?

For all of the contemporary application, it is something like mandatory for them to work with database due to huge data processing requirement. Learning SQL Database can help you to understand how the modern application works in back-end and you will be getting exposure to how the database can lead to solving different complex problems.

## How it will help in application development?

When it comes to dynamic application development, working with SQL and database is very important. While your SQL database training you will learn the SQL commands that can be used along with the programming language to work with data and in this way it could be very useful while application development.



# Customer Reviews

“

This is the absolute essential beginners guide to the Structured Query Language. From a basic explanation of SQL's simplest commands clear through data manipulation and grouping, this course is perfect for somebody just starting out with the programming language, or anyone looking for a refresher.

Joseph Mangini

”

Awesome course for the SQL beginners. The instructor was very knowledgeable and provided a lot of examples to understand all the queries much better. This course is helping me a lot in my new job. I will strongly recommend this to other aspiring analyst. Looking forward to start the advance course.

Ankit Tyagi



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## SQL Training Certification Course

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For Queries please contact:

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