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# DATABASE COURSE DETAILS

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DURATION : 2 MONTHS

## **Mindscares Technologies**

**Off # 01 , Mezzanine Floor, Park View AptNear Usmania  
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## Database Training

### Structured Query Language(SQL) Training

SQL stands for Structured Query Language generally referred to as SEQUEL. Structured Query Language (SQL) is the set of statements with which all programs and users access data from an Oracle database.

Mindscapes Technologies Oracle SQL training in Karachi is ideal for potential Oracle developers, database administrators and support technicians. Application programs and Oracle tools often allow users access to the database without using SQL directly, but these applications in turn must use SQL when executing the user's request. Oracle SQL course will allow delegates to understand and use Oracle SQL. They will learn how to enter SQL, use the "select" statement, understand and use joins, sub-queries and create and manipulate data tables Oracle



**What will you learn?** Understand the basic concepts of relational databases ensure refined code by developers. Create reports of sorted and restricted data. Run data manipulation statements (DML). Control database access to specific objects. Manage schema objects. Manage objects with data dictionary views. Retrieve row and column data from tables. Control privileges at the object and system level. Create indexes and constraints; alter existing schema objects. Create and query external tables. After learning these things you will be able to get into the software industry and make it big.



**What skills will the student gain?** SQL training helps you write subqueries, combine multiple queries into a single query using SET operators and report aggregated data using group functions. Upon completion of Database SQL training in Karachi, a SQL course Completion certification will be awarded to you.

#### Who will the course benefit?

- Freshers or Beginners with excellent learning capabilities
- Those who want to work on Database.
- Those who wish to brush up their SQL knowledge.

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## SQL Training Course contents

Topic	Contents
<b>Introduction</b>	Introduction to Users and Schemas Definitions and Client Tools SQL Developer Login Creating An Application Schema to SQL and its development environments What is Oracle SQL Developer? Starting SQL*Plus from Oracle SQL Developer The Human Resource (HR) Schema Tables used in the Course
<b>Retrieving Data using the SQL SELECT Statement</b>	SELECT statement Arithmetic expressions and NULL values Column aliases Use of concatenation operator literal character strings alternative quote operator the DISTINCT keyword Use of the DESCRIBE command
<b>Restricting and Sorting Data</b>	Limiting the Rows Rules of precedence for operators in an expression Substitution Variables Using the DEFINE and VERIFY command
<b>Single-Row Functions to Customize Output</b>	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
<b>Conversion Functions and Conditional Expressions</b>	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
<b>Aggregated Data Using the Group Functions</b>	Group Functions Creating Groups of Data Restricting Group Results
<b>Joins</b>	Introduction to JOINS Types of Joins Natural join Self-join Non equijoins OUTER join
<b>Using Subqueries to Solve Queries</b>	Introduction to Subqueries Single Row Subqueries Multiple Row Subqueries



<b>SET Operators</b>	Set Operators UNION and UNION ALL operator INTERSECT operator MINUS operator Matching the SELECT statements Using ORDER BY clause in set operations
<b>DML &amp; DDL</b>	Data Manipulation Language Database Transactions Data Definition Language
<b>Data Dictionary Views</b>	Introduction to Data Dictionary Describe the Data Dictionary Structure Using the Data Dictionary views Querying the Data Dictionary Views
<b>Sequences, Synonyms, Indexes,views</b>	Overview of sequences Overview of synonyms Overview of indexes Overview of Views
<b>Retrieving Data by Using Subqueries</b>	Retrieving Data by Using a Subquery as Source Working with Multiple-Column subqueries Using Scalar subqueries in SQL Correlated Subqueries Working with the WITH clause
<b>Manipulating Data by Using Subqueries and Manipulating Data</b>	Using Subqueries to Manipulate Data Inserting by Using a Subquery as a Target Using the WITH CHECK OPTION Keyword on DML Statements Using Correlated Subqueries to Update and Delete rows Overview of the Explicit Default Feature Using multitable INSERTs Using the MERGE statement Performing flashback operations Tracking Changes in Data
<b>Controlling User Access</b>	System privileges Creating a role Object privileges Revoking object privileges
<b>Managing Data in Different Time Zones</b>	Working with CURRENT_DATE, CURRENT_TIMESTAMP, and LOCALTIMESTAMP Working with INTERVAL data types

**Difficulty Level:** Beginner

**Applicable Job Roles:** Database developer.

**Pre-Requisite:** Data processing Familiarity with data processing concepts and techniques

**Course Duration and Fee:**

**Duration:** 2 Months

**Schedule:** 2 Days a Week

**Instructor:**

Best SQL Trainers in Karachi

- 10 years of relevant work experience in SQL Training
- Real time Training on SQL Projects

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