

SQL

30 Days Training Program



"SQL: The Language of Data Mastery."

IIHT Jaipur believe that upskilling is mightier than massive layoffs. And not just us, but countless companies attest to it and have adopted this approach in their businesses as well. The domain expertise these upskilled individuals bring in is what sets them apart. We focus on nurturing these aspects. So, whether you are a student in college or a fresh graduate entering corporate, we have something for you to offer. We are an online and offline training institution that provides students and professionals with courses in high demand. We provide training in a vast array of technologies, including Cloud Computing, DevOps, Cyber Security, Full stack development, Data Science, Digital Marketing, and Web Development, among others.

SQL Certification training course provides all of the basic information you need to successfully start working with SQL databases and apply the SQL database to your own applications. Upon completion of this comprehensive course, you will know how to correctly structure your database, author efficient SQL statements and clauses, and manage your SQL database for scalable growth.



Structured Query Language (SQL)

Introduction To SQL

1. Introduction Database
2. Understanding DBMS vs RDBMS
3. Gone through SQL Standards
4. Sub languages of SQL
5. Difference between 10g vs 11g vs 12c
6. Installation of 12c
7. About SQL*Plus and use of developer tool
8. Datatypes in Oracle
9. Operators in Oracle
10. Understanding Schema design and objects

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
 - o Where clause
 - o Having clause
 - o From clause, Group by clause
 - o Order by clause
 - o Using clause, Constraint clause
 - o For update clause

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

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 [Implementation of Project 1]

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
 - o Not null
 - o Unique key
 - o Primary key
 - o Referential integrity
 - o Check integrity
5. How to enable and disable constraints?
6. How to get information about constraints?

Built-In Functions

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

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Data Aggregation

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

Importance Of JOIN

1. Understanding joins and its uses
2. Types of joins
 - o Equi join
 - o Non - equi join
 - o Self join

- o Outer join
- o Left & Right outer join
- o Full outer join
- o Cross join [Implementation of Project 3]

Set Operators And Pseudo Columns:

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

Sub Queries

1. Importance of sub queries
2. Using different types of sub queries
 - o Single row sub queries
 - o Multi row sub queries
 - o Nested queries
 - o Multi column sub queries
 - o Correlated sub queries
3. Using inline views and scalar queries [Implementation of Project 4]

Database Transaction And Security

1. Working with data query language using TCL
2. Working with data control language commands
3. Use of commit and rollback
4. Use of savepoint and set transaction
5. How to give system privileges to an user?
6. How to invoke and revoke object privileges?
7. How to create users and roles?

Chapter 12: 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 [Implementation of Project 5]



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