

Course Guide

SQL for Testers

"I think this session was right choice for me. Every beginner can study about definitions from some books, but having real-world knowledge and using it in practice that what makes us impeccable. In my situation, I have been reading several books; taking you tube online training however did not acquire much practical knowledge. The training provided both substantial and in-depth understanding along with case studies, learning from experience and being fully practice-oriented. I will most certainly recommend this course to everyone who is interested in learning SQL for Testing purposes."

- Anurag Tripathi
Capital Finance





SQL for Testers

If you are new to software testing or looking for a career change to become a software tester Understanding the relational data model behind an application enables you to design additional tests and gain a deeper understanding of the application you are testing. This course is an introduction to relational databases and SQL. SQL knowledge helps both manual and automated testers. This course aims to equip the individual with all the necessary skills and knowledge to do backend testing via SQL.

Pre-Requisites

Basic knowledge of computers

Course Objectives

- ✓ Understand how information is stored and retrieved in relational database.
- ✓ Be able to write SQL queries using SELECT, INSERT, UPDATE and DELETE Statements and execute them.
- ✓ Understand indexes and how to look for performance bottlenecks.

Course Audience

- ✓ Anyone who is new to Software Testing
- ✓ Anyone who is working in Testing Teams and Environment
- ✓ Aspiring Software Testers who are willing to enhance skills in SQL
- ✓ Non-testers who want to know about SQL

Duration

8 hours/ 1 day

Location

Skiva IT Consulting

**Suite 902, Level 9, 175 Castlereagh Street,
Sydney, NSW 2000 Australia**

Course Content

Module 1: Relational Databases Fundamentals

- ✓ Understanding data and data types
- ✓ Define SQL
- ✓ SQL components
- ✓ Entities and Relationships
- ✓ Tables
- ✓ Views
- ✓ Fields
- ✓ Indices
- ✓ Primary and foreign keys
- ✓ Relational database concepts summary

Module 2: Creating Database Objects.

- ✓ Creating Tables.
- ✓ Simple SQL-CREATE, Retrieve, Update and Delete (CRUD)
- ✓ Creating Views.

Module 3: Retrieving Data from Tables/Views.

- ✓ Basics of the SELECT Statement
- ✓ Conditional Selection
- ✓ Relational Operators
- ✓ Compound Conditions
- ✓ IN & BETWEEN predicate
- ✓ Using LIKE predicate
- ✓ EXISTS predicate
- ✓ IS NULL predicate
- ✓ Eliminating Duplicates
- ✓ GROUP BY Clause & HAVING

- ✓ Aggregate Functions
- ✓ Order By Clause
- ✓ Fetch First Clause
- ✓ Joining Tables.
- ✓ Set Operators.
- ✓ Union and Union All
- ✓ Intersect and Intersect All
- ✓ Except and Except All
- ✓ Aliases & In/Sub queries

Module 4: Altering Table/View and Adding Data.

- ✓ Inserting single record into a Table/View.
- ✓ Adding a new table
- ✓ Nested Queries.

Module 5: Deleting Data.

- ✓ Deleting all records from table/view.
- ✓ Deleting selected records from table/view.

Module 6: Updating/Modifying existing Data in a table/view.

- ✓ Updating all records.
- ✓ Updating selected records.
- ✓ Updating multiple fields

Module 7: Importance of Back End Testing

- ✓ Why back end testing is important
- ✓ Characteristics of Back End testing
- ✓ Back End testing phases
- ✓ Back end test methods

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