

SQL Beginner Boot Camp: Curriculum and Agenda



SQL Training Topics

Database structure

Data extraction from a single table

Order by (Sorting)

Where (Filtering)

Calculated fields

Text, dates, and numeric data types

Training Syllabus

Database Structure and Data Types

Overview of relational databases, data flow, and review common SQL terms

Database, schema, and tables overview

Retrieving, Sorting, and Limiting Data from a Single Table

Retrieve data from a single table via the utilization of **SELECT** and **FROM** statements

Sorting and limiting data using **ORDER BY** and **LIMIT** statements

Filtering and Calculating Data

Utilize conditional operators to filter data using **WHERE** statements

Perform mathematical operations on multiple fields via **calculated fields**

Training Agenda

Extracting, Sorting, and Limiting Data

Estimated time: 3 – 4 hours

Create databases and tables

Database, schema, and table overview

Review of **CREATE TABLE** queries and data types (text, numeric, etc.)

Understand data in tables via **SELECT* FROM LIMIT**

Retrieve specific data from a single table via the utilization of **SELECT** and **FROM** statements

Sort data using **ORDER BY** statements

Sort single column data via column names and numbers

Sort multiple columns data via column names and numbers

Issue solo exercises

Filtering Data

Estimated time: 3 – 4 hours

Review 3 to 5 exercises from previous topics solo exercises

Utilize conditional operators to filter data using **WHERE** statements

Retrieve non-duplicated data by using **DISTINCT**

Issue solo exercises

Calculated Fields

Estimated time: 2 – 3 hours

Add and filter calculated fields to existing table data utilizing mathematical calculations, such as **addition, subtraction, division,** and **multiplication**

Issue solo exercises



DATA TELLS A STORY. BE THE STORYTELLER