Accelerated Data Analytics Boot Camp: Prerequisites and Curriculum

SQL Software Requirements

Free trial of Snowflake (Cloud-based SQL software)

Part 1: SQL Training Syllabus

In the **SQL portion** of the boot camp, we will work with a single-table database to understand database structure and data types while retrieving data using foundational SQL queries. We will also practice filtering, sorting, and limiting results to extract meaningful datasets for data analysis.

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 Data

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

Excel Prerequisites Topics & Skills to Know

Office 365

Creating new worksheets

Hiding worksheets

Deleting worksheets

Locating a cell

Data entry (inputting data into a cell)

Know the difference between columns and rows

Copying and pasting data

Opening a workbook

Know the difference between a workbook vs. worksheet

Saving a workbook

Inserting and deleting rows and columns

Formatting (Font, borders, alignments, data types)

Part 2: Excel Training Syllabus

Working with SQL Data in Excel

In the **Excel portion** of the boot camp, we will extract data using SQL and load it into a pre-built Excel reporting template, where the data will be refreshed, analyzed, and used to generate KPI-driven insights.

Power BI System Requirements

Windows Operating System or Macbook Parallel System

Part 3: Power BI Training Syllabus

In the **Power BI** portion of the training, we will import prepared data and build visualizations to explore trends and performance. We will also create dynamic dashboards using calculated fields, filtering, formatting, and themes to present data clearly and effectively.

Introduction to Power BI

Data source connections

Data import via Power Query

Chart selections

Filtering and sorting data

Formatting (Colors, themes, branding, fonts, logos)

Dynamic dashboards

Aggregations

Data types

Calculated fields

eXcelerate

DATA TELLS A STORY. BE THE STORYTELLER