

Data Analysis with Databricks SQL - Extended

Duration : 3 Days

Getting started with Databricks

- Databricks SQL - Introduction
- Capabilities and benefits of Databricks SQL?
- Understanding the medallion architecture
- Understanding Databricks SQL Workspace and Databricks Notebooks

Tables and views

- Understanding Tables in Databricks SQL
- Creating and Managing Tables
- Creating and Using Views
- Temporary and Permanent Tables
- Managing Metadata and Catalogs

Ingesting data

- Data Sources and Formats (CSV, Parquet, JSON, etc.)
- Importing Data from External Sources
- Using Databricks SQL for Data Ingestion
- Data Pipeline Concepts
- Import from object storage using Databricks SQL

Delta Commands in Databricks SQL

- Introduction to Delta Lake
- Writing to Delta Tables
- Reading from Delta Tables

- Delta Commands for Data Management (MERGE, UPDATE, DELETE, etc.)
- Analytical Functions (Window Functions, Grouping, etc.)
- Joins and Relationships between Tables
- Aggregations and Grouping
- Filtering and Sorting Data
- Working with UDFs

Data visualization and dashboards

- Building Visualizations with Databricks SQL
- Types of Visualizations (Bar Charts, Line Charts, etc.)
- Creating Interactive Dashboards
- Using SQL Queries in Visualizations

Databricks Jobs

- Creating a Job
- View Jobs and Job details
- Running your first Job
- Scheduling Jobs
- Setting Parameters
- Viewing completed jobs

More Insights on Analytical Applications

- Working with Read Write Operations as a :
 - Batch
 - Stream
- Working with Versioning and Concurrency
- Understand and describe Data Enhancements