Spark SQL

Introduction

- ► Spark SQL is a module for structured data processing, upon which the higher-level structured APIs are built.
- Lets us query data using JDBC/ODBC connectros from external business intelligence sources such as Tableau, Power BI, Snowflake, or from RDBMS such as MySQL and PostgreSQL.
- ▶ Offer an interactive shell to issue SQL queries on our structured data.
 - We can interact with the SQL interface via a programming language and the data set will be returned as a Dataset/DataFrame.
- ▶ When computing a result the same execution engine is used, independent of which API/language you are using to express the computation. This unification means that developers can easily switch back and forth.

Examples

- ► Example 1: Using SQL on DataFrames
- ► Example 2: Manipulating databases directly using SQL in Spark