## Data-Driven Insights from the Sakila DVD Rental Database Using SQL

• This project showcases SQL-based analysis using the Sakila movie rental database. It includes querying customer activity, rental history, and film revenue using joins, aggregates, subqueries, and views. The goal was to extract actionable insights and optimize performance with indexing. It's a great example of real-world data analysis using SQL.

#### Sakila SQL Analysis

• This project explores the \*\*Sakila DVD rental database\*\* using SQL to extract insights, summarize customer behavior, and analyze film revenue.

## Main Objective

• Use SQL to extract and analyze business data from a relational database.

#### Dataset

- \*\*Sakila Database\*\* (MySQL Sample)
- Includes: Customers, Rentals, Payments, Films, Staff

#### **Tools**

- MySQL Workbench
- SQL (DDL & DML)

# **Tasks Completed**

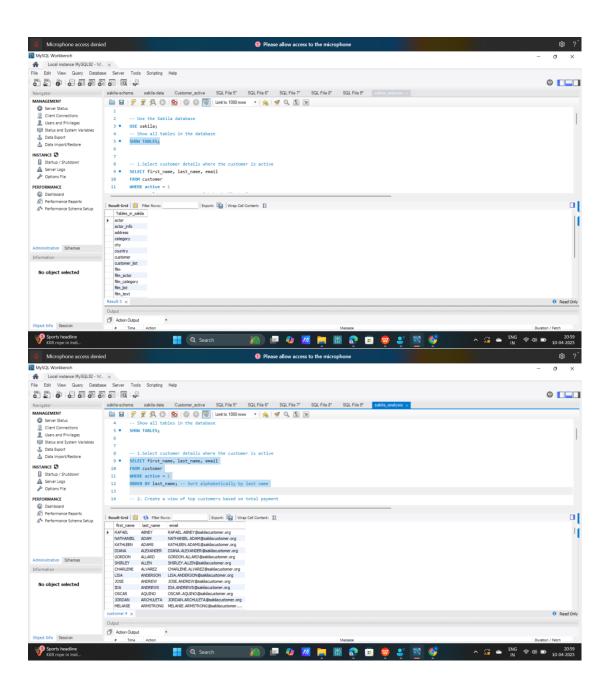
- 1. Filter Active Customers
- 2. join Tables for Rental History
- 3. Top Revenue-Generating Films
- 4. Customers Spending Above Average (Subquery)
- 5. Create View: `top customers`
- 6. Optimize with Index on 'payment.customer id'

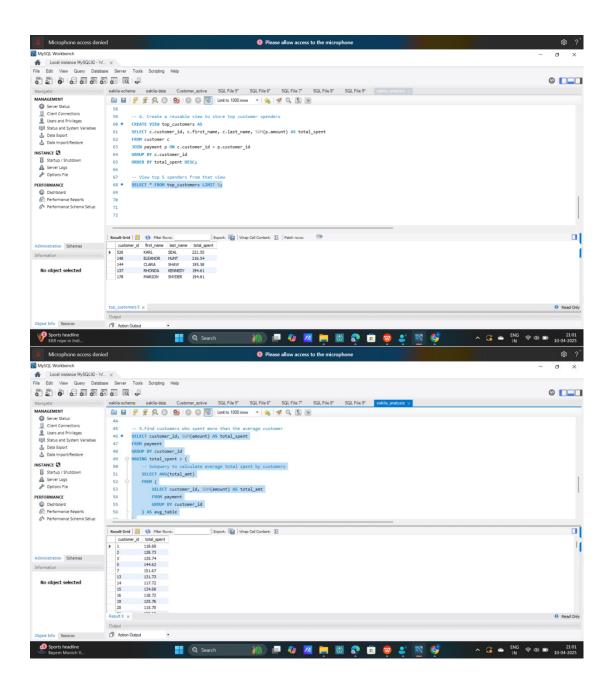
#### **Files**

- sakila\_analysis.sql All SQL queries
- README.md Project overview

### **Key SQL Concepts**

- `SELECT`, `WHERE`, `GROUP BY`, `ORDER BY`
- `JOIN` (INNER)
- `SUM`, `AVG`
- Subqueries
- Views
- Indexes





# **END**