

SQL Data Analysis Project Report

Internship Program: Elevate Lab Internship

Intern Name: Samruddhi B S

Domain: Data Analysis / SQL

Objective:

To extract, manipulate, and analyze structured ecommerce data using SQL queries including SELECT, WHERE, GROUP BY, JOINS, subqueries, views, and indexes.

Tools Used:

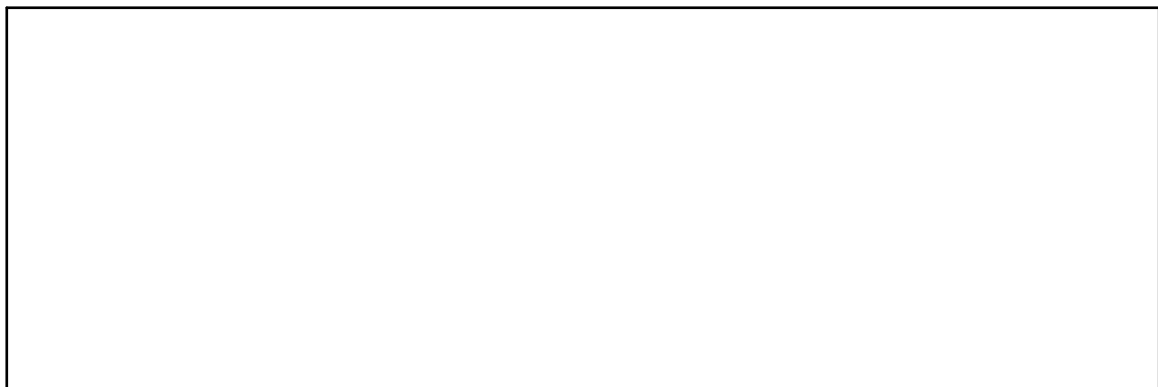
- MySQL / PostgreSQL / SQLite
- MySQL Workbench / pgAdmin

Key SQL Queries Implemented:

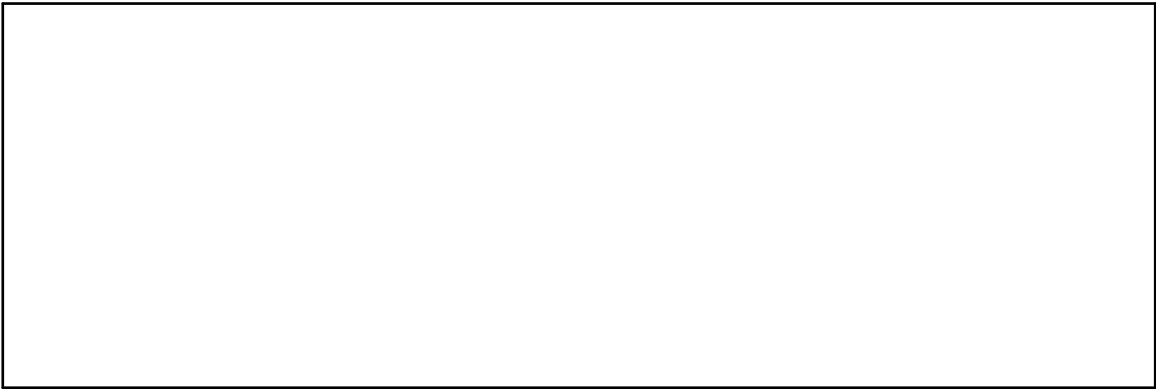
1. SELECT, WHERE, ORDER BY for data retrieval and filtering
2. GROUP BY with SUM(), AVG(), COUNT() for aggregation
3. INNER JOIN and LEFT JOIN for combining tables
4. Subqueries for advanced filtering
5. CREATE VIEW for reusable analysis
6. CREATE INDEX for performance optimization

Screenshots of SQL Output:

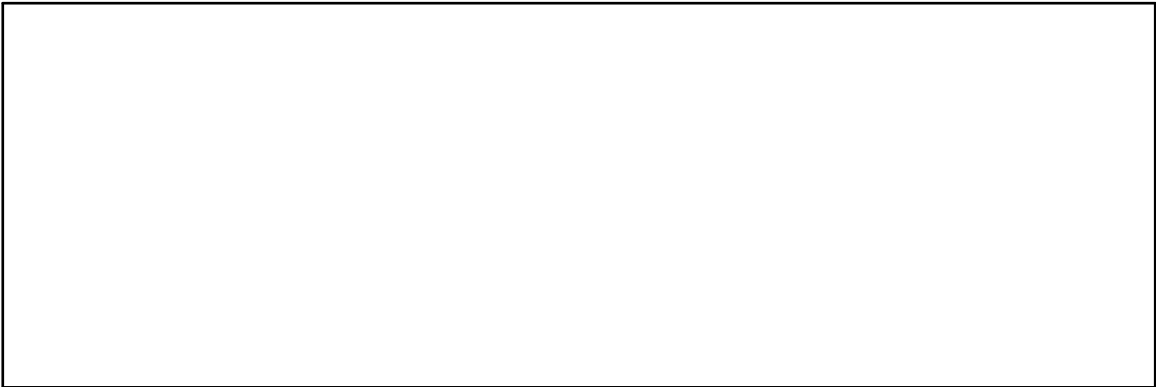
Screenshot 1: Customers Table Output



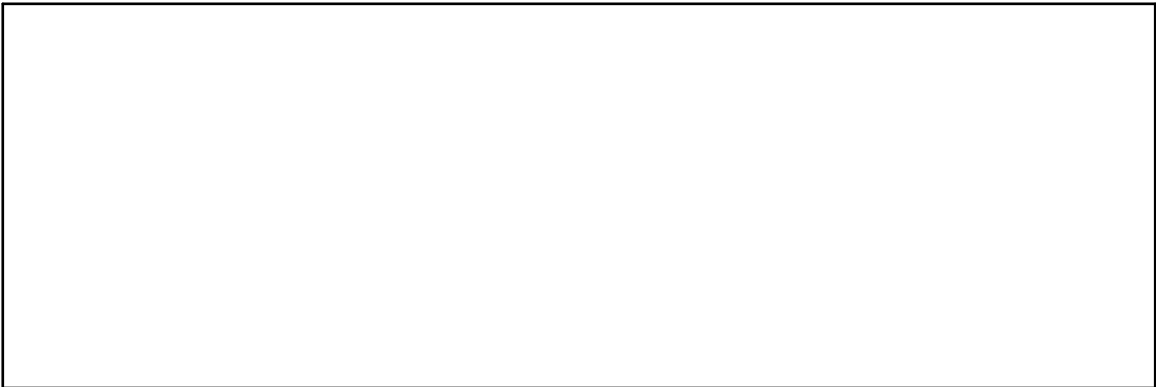
Screenshot 2: Total Revenue Query Result



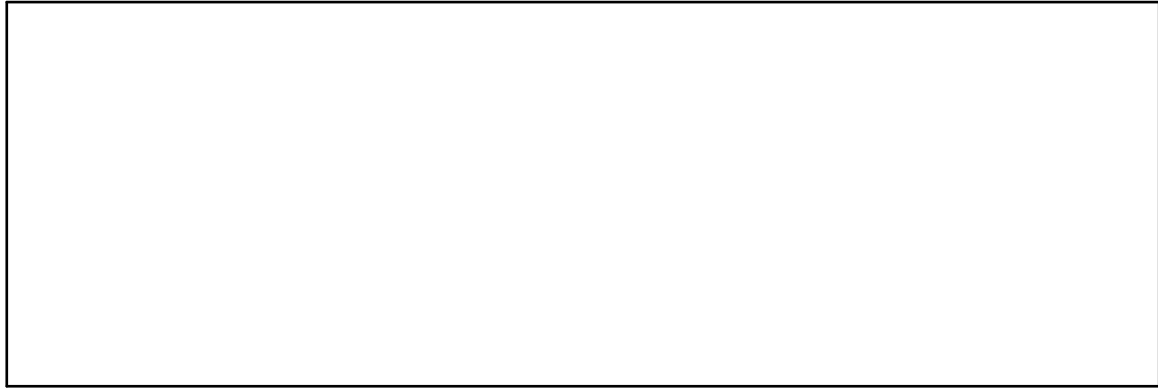
Screenshot 3: JOIN Query Result



Screenshot 4: View Creation Output



Screenshot 5: Index Creation Output

**Outcome:**

Successfully performed ecommerce data analysis using structured SQL queries. Improved understanding of relational databases, query optimization, and business insights extraction.