

Task 6: Sales Trend Analysis Using Aggregations

Objective:

Analyze monthly revenue and order volume using SQL date functions and aggregations.

Tools:

MySQL

Dataset:

online_sales table (order_id, order_date, product_id, amount)

What Will Do:

Extract month and year from dates

Group sales by month

Calculate:

Total Revenue → SUM(amount)

Order Volume → COUNT(DISTINCT order_id)

Sort results by month

Filter specific time periods

Key SQL Concepts Used:

EXTRACT() / DATE_FORMAT() / strftime()

GROUP BY year, month

SUM() for revenue

COUNT(DISTINCT) for order count

ORDER BY for sorting

WHERE for date filtering

Outcome:

Learn how to perform time-based sales analysis, identify monthly trends, and apply aggregations in SQL effectively.