

# TASK 6 SUMMARY

**Task Name:** Sales Trend Analysis Using SQL Aggregations

**Dataset Used:** online\_sales table

**Columns:** Order\_ID, Order\_Date, CustomerName, State, City

## Objective

The objective of Task 6 is to analyze sales trends by applying SQL aggregation functions such as COUNT(), GROUP BY, YEAR(), and MONTH(). Since the dataset contains order details without revenue information, the analysis focuses on **order volume trends**.

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## Key Operations Performed

### 1. Monthly Order Analysis

- Extracted **Year** and **Month** from Order\_Date
- Counted monthly number of orders using:  
COUNT(DISTINCT Order\_ID)

### 2. Year-Specific Order Analysis

- Filtered data for a selected year (2018)
- Showed monthly order distribution for that year.

### 3. Yearly Order Summary

- Calculated the total number of orders per year.

### 4. Top 3 Performing Months

- Identified the months with the highest order count.

### 5. Trend for a Specific Month Across Years

- Extracted how a specific month (e.g., March) performed over different years.
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## **SQL Server Functions Used**

- YEAR(Order\_Date)
  - MONTH(Order\_Date)
  - COUNT(DISTINCT Order\_ID)
  - GROUP BY
  - ORDER BY
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## **Outcome**

This task helped in understanding:

- How to group data by year and month
- How to count unique orders
- How to generate time-based trends
- How to perform basic sales analytics even without revenue column

This analysis provides insights into:

- Order volume seasonality
- Monthly order patterns
- Best-performing months