# Elevate Internship — Task 6: Sales Trend Analysis Using Aggregations

This document contains the complete submission for Elevate Internship — Task 6. The task performs Sales Trend Analysis using SQL aggregations to compute monthly revenue and monthly order volume, along with identifying top-performing months.

**1. Objective**
Analyze sales performance trends by grouping orders by month and year using SQL.

**2. SQL Query (PostgreSQL / MySQL)**
SELECT EXTRACT(YEAR FROM order_date) AS year, EXTRACT(MONTH FROM order_date) AS month, SUM(amount) AS monthly_revenue, COUNT(DISTINCT order_id) AS monthly_order_volume FROM orders GROUP BY 1,2 ORDER BY 1,2;

**3. SQL Query (SQLite)**
SELECT CAST(strftime('%Y', order_date) AS INTEGER) AS year, CAST(strftime('%m', order_date) AS INTEGER) AS month, SUM(amount) AS monthly_revenue, COUNT(DISTINCT order_id) AS monthly_order_volume FROM orders GROUP BY year, month ORDER BY year, month;

**4. Top 3 Months by Revenue**
WITH monthly AS ( SELECT EXTRACT(YEAR FROM order_date) AS year, EXTRACT(MONTH FROM order_date) AS month, SUM(amount) AS monthly_revenue FROM orders GROUP BY 1,2 ) SELECT * FROM monthly ORDER BY monthly_revenue DESC LIMIT 3;

**5. Notes**
• Use COUNT(DISTINCT order_id) to ensure unique order counts.
• SUM(amount) calculates total revenue per month.
• ORDER BY helps sort months chronologically or by revenue.

**Author:** Badam Sri Vidya