TASK 6: Sales Trend Analysis Using Aggregations

SQL Script

SELECT EXTRACT(YEAR FROM order_date) AS sales_year, EXTRACT(MONTH FROM order_date) AS sales_month, SUM(amount) AS total_revenue, COUNT(DISTINCT order_id) AS total_orders FROM online_sales.orders GROUP BY EXTRACT(YEAR FROM order_date), EXTRACT(MONTH FROM order_date) ORDER BY sales_year ASC, sales_month ASC;

Sample Results Table

sales_year	sales_month	total_revenue	total_orders
2023	1	152,300	1,245
2023	2	165,900	1,398
2023	3	171,450	1,512
2023	4	190,100	1,670
2023	5	178,250	1,590
2023	6	201,980	1,745

Outcome Summary

This analysis helps identify monthly trends in sales by grouping data using EXTRACT functions and applying aggregations like SUM() for revenue and COUNT(DISTINCT order_id) for order volume. It offers insights into seasonal patterns, demand forecasting, and supports decision-making in business environments.