TASK 2

SQL QUERIES TO EXTRACT AND ANALYZE DATA FROM A DATABASE

Data Analyst Internship

By: Kajal Prajapati

Project Name: Olist E-Commerce SQL Analysis

Tool Used: MySQL

Dataset: Brazilian E-Commerce Public Dataset (Olist)

Tables Used: 9 Tables including orders, products, payments, order_items etc.

OBJECTIVE

- Perform SQL data analysis using JOINs, GROUP BY, Subqueries, Views
- Extract business insights like:
 - Top Selling Products
 - Payment Method Trends
- Apply indexing for performance optimization
- Use views for reusable queries

DATA LOADING IN MYSQL

- •Used LOAD DATA LOCAL INFILE for 9 CSVs
- •Enabled local_infile in MySQL

•Sample SQL:

```
LOAD DATA LOCAL INFILE "C:\\Users\\Kajal Prajapati\\Documents\\my_sql_dataset\\olist_customers_dataset.csv"

INTO TABLE customers

FIELDS TERMINATED BY ','

ENCLOSED BY '"'

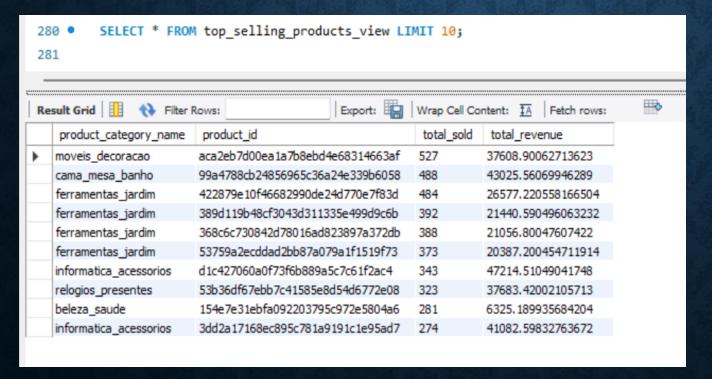
LINES TERMINATED BY '\n'

IGNORE 1 ROWS;
```

TOP SELLING PRODUCTS

- View Name: top_selling_products_view
- Columns: product_id, category, total_sold, total_revenue

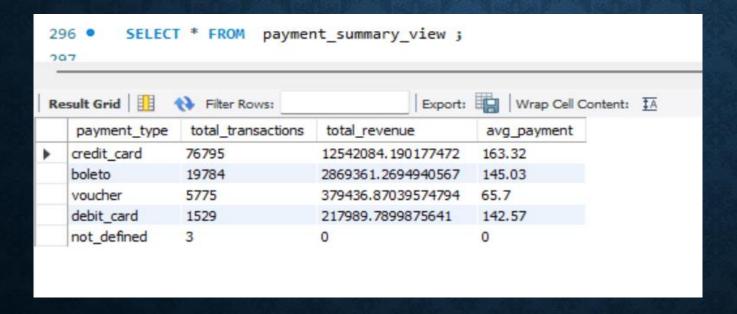
Output Table



PAYMENT METHOD TRENDS

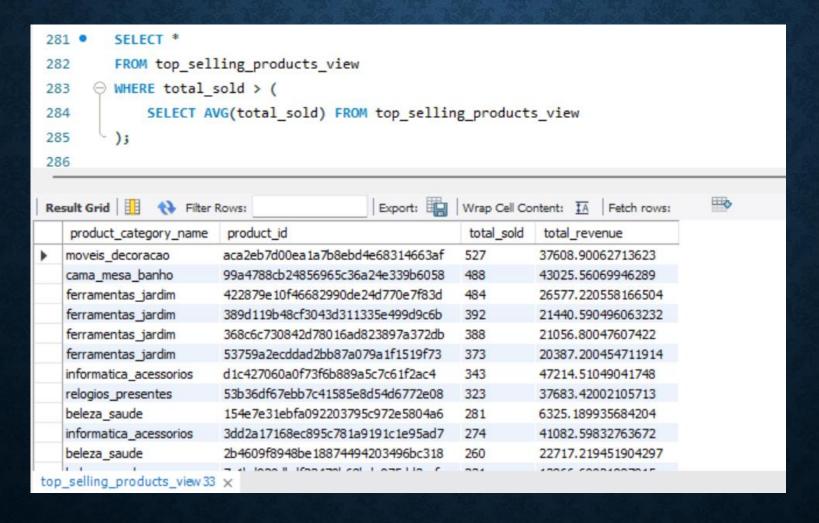
- View Name: payment_summary_view
- Columns: payment_type, transactions, total revenue, avg

• Output Table



SUBQUERY EXAMPLE

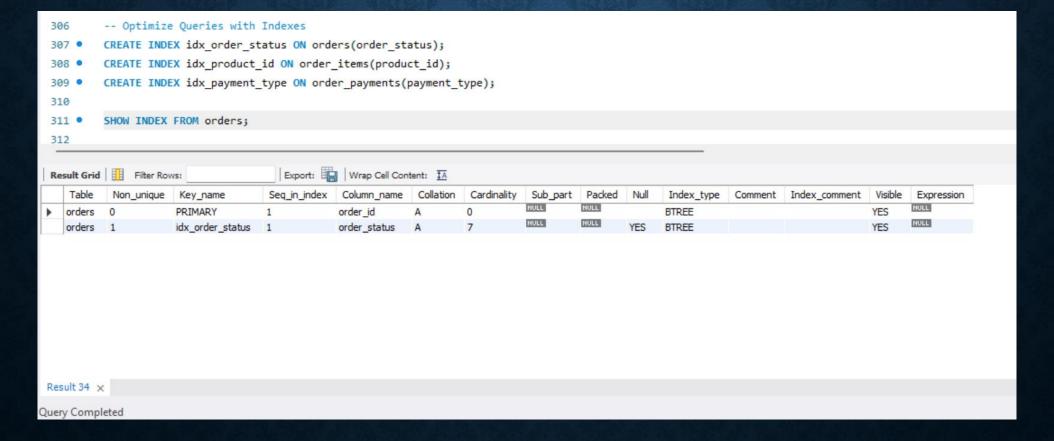
products which sold more than average quantity



QUERY OPTIMIZATION

Used Indexes on:

• product_id, order_status, payment_type etc



SUMMARY

Loaded & analyzed real-world E-Commerce dataset
Extracted key insights using SQL (Top Products + Payments)
Applied subqueries, views, indexing
Ready for dashboard in Power BI