Olist Store Analysis

Presented By Group 2

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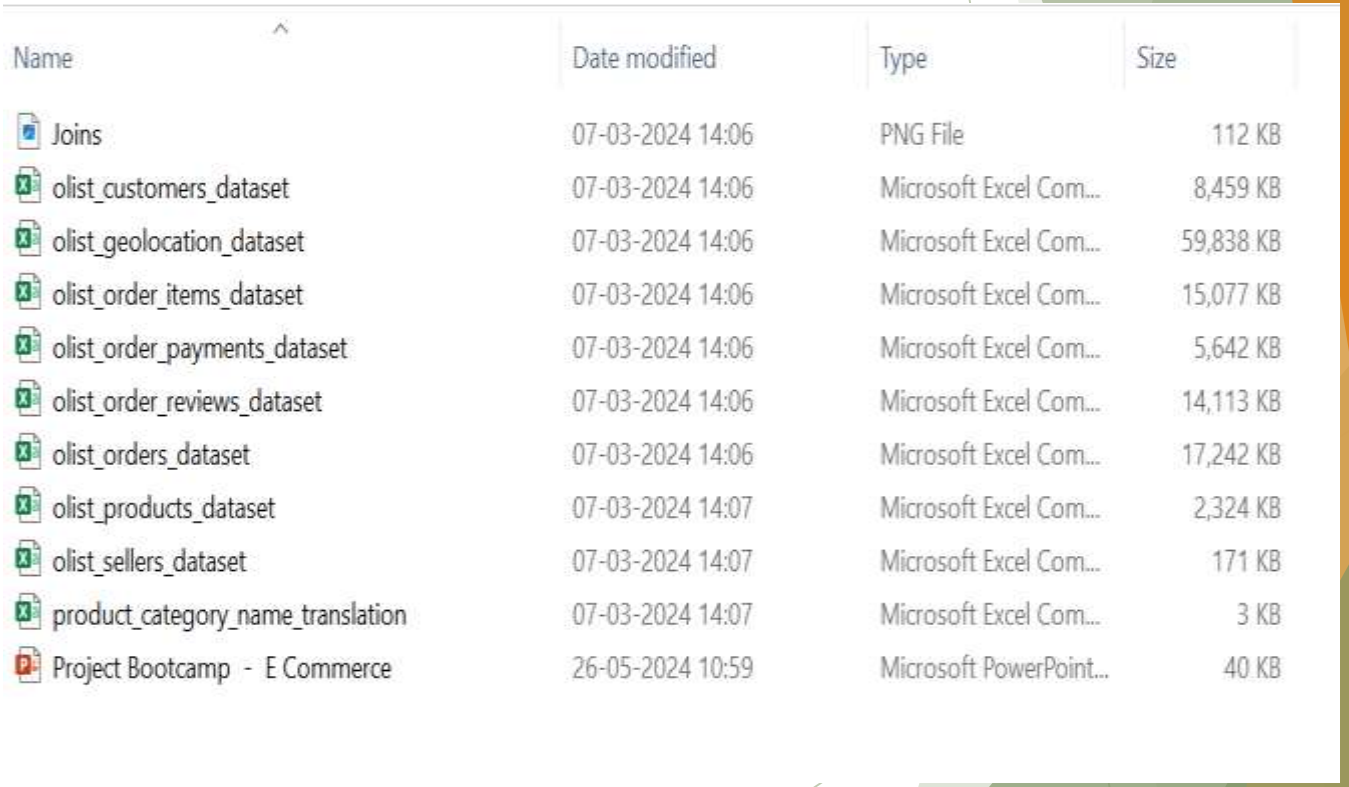
Data Set

- The Olist Store Analysis project focuses on understanding customer buying behaviors and payment statistics on the Olist e-commerce platform.
- It analyzes key performance indicators(KPI's) like weekday vs weekend sales, payment statistics, delivery times, and customer behavior.
- The analysis is based on nine CSV files, which are cleaned and manipulated to extract valuable insights.



Name	Date modified	Type	Size
Joins	07-03-2024 14:06	PNG File	112 KB
olist_customers_dataset	07-03-2024 14:06	Microsoft Excel Com...	8,459 KB
olist_geolocation_dataset	07-03-2024 14:06	Microsoft Excel Com...	59,838 KB
olist_order_items_dataset	07-03-2024 14:06	Microsoft Excel Com...	15,077 KB
olist_order_payments_dataset	07-03-2024 14:06	Microsoft Excel Com...	5,642 KB
olist_order_reviews_dataset	07-03-2024 14:06	Microsoft Excel Com...	14,113 KB
olist_orders_dataset	07-03-2024 14:06	Microsoft Excel Com...	17,242 KB
olist_products_dataset	07-03-2024 14:07	Microsoft Excel Com...	2,324 KB
olist_sellers_dataset	07-03-2024 14:07	Microsoft Excel Com...	171 KB
product_category_name_translation	07-03-2024 14:07	Microsoft Excel Com...	3 KB
Project Bootcamp - E Commerce	26-05-2024 10:59	Microsoft PowerPoint...	40 KB

KPI-1

Weekday vs weekend payment statistics

Weekday Vs Weekend (order_purchase_timestamp) Payment Statistics

- Helps to understand the customer buying behaviour.
- Reveals which days have the highest sales.
- Allows Olist to enhance weekdend sales and plan targeted promotions.

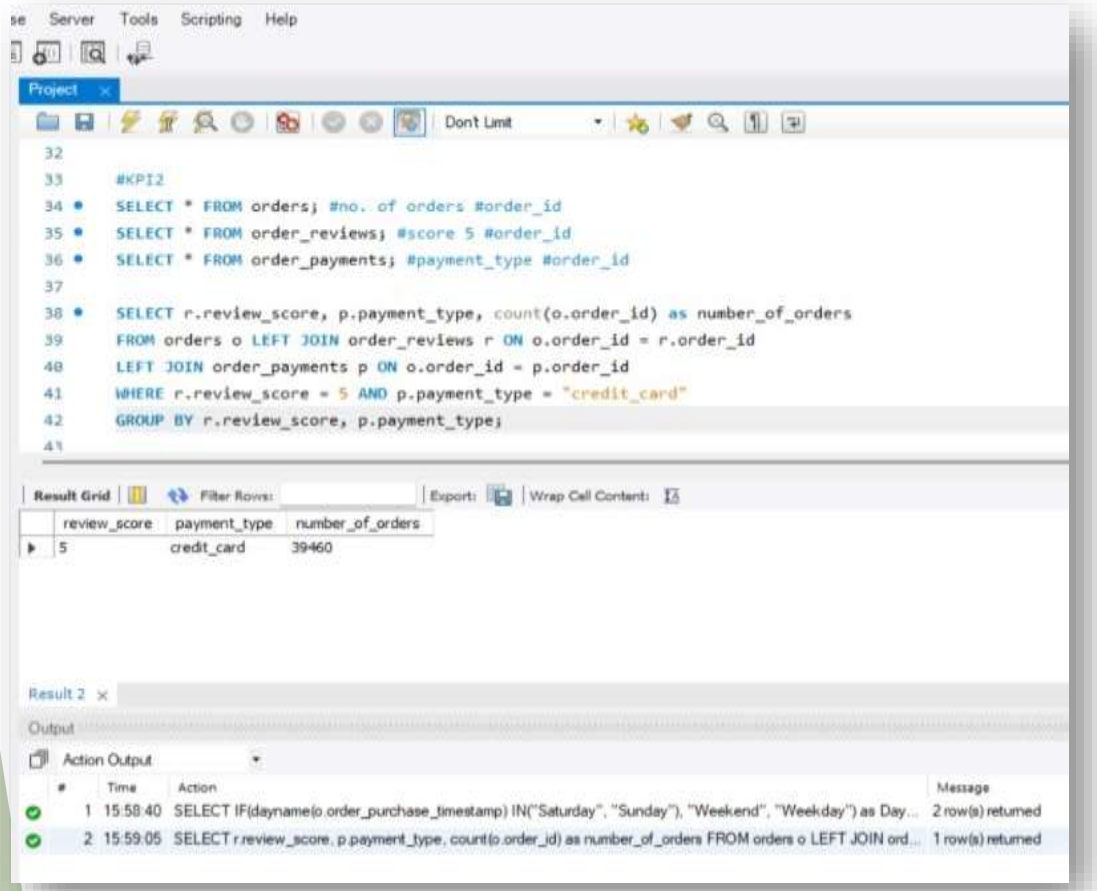
```
23    #KPI1
24 •  SELECT * FROM orders;
25 •  SELECT * FROM order_payments;
26
27 •  SELECT Day_type, total_payments,
28    sum(total_payments) Over() as total,
29    concat(round((total_payments*100/sum(total_payments) OVER())),"%") as payment_percentage
30    FROM
31       (SELECT IF(dayname(o.order_purchase_timestamp) IN("Saturday", "Sunday"), "Weekend", "Weekday") as Day_type,
32       round(sum(payment_value)) as total_payments
33       FROM orders o LEFT JOIN order_payments od ON o.order_id = od.order_id
34       GROUP BY Day_type) as a;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Day_type	total_payments	total	payment_percentage
Weekend	3242864	14255235	23%
Weekday	11012371	14255235	77%

KPI-2

Payment type with review score 5

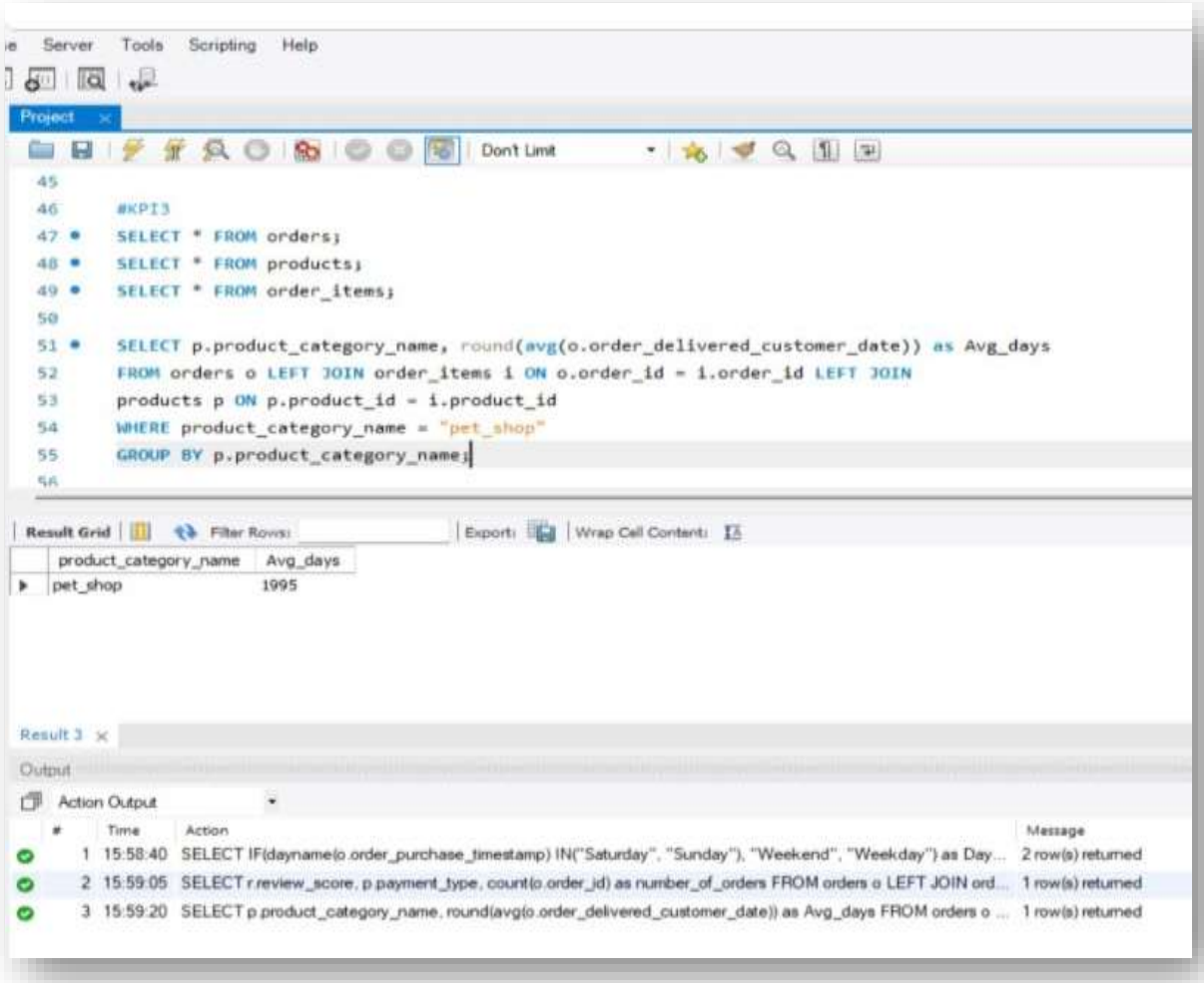


Number of Orders with Review score as 5 And payment type as Credit card

- Helps to understand customer satisfaction and payment preferences
- Allows the store to target satisfied customers for repeat purchases.

KPI-3

Average number of delivery days taken for pet shop

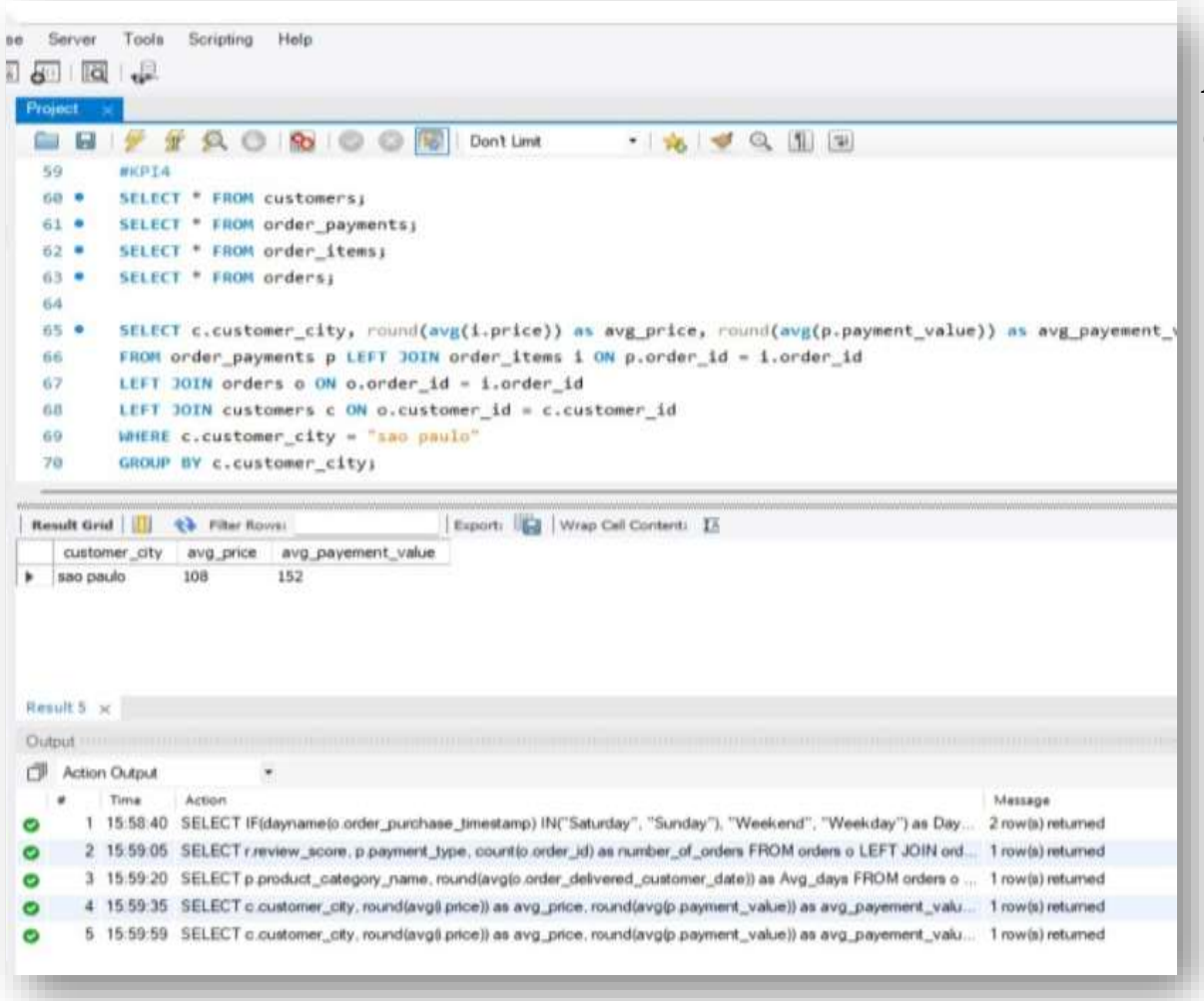


Average number of days taken for order_delivered_customer_date for pet_shop

- This KPI measures the average delivery time for pet shop orders.
- It helps Olist identify opportunities to improve delivery speed and maintain customer satisfaction.

KPI-4

Average price and payment value of Sao Paulo city.

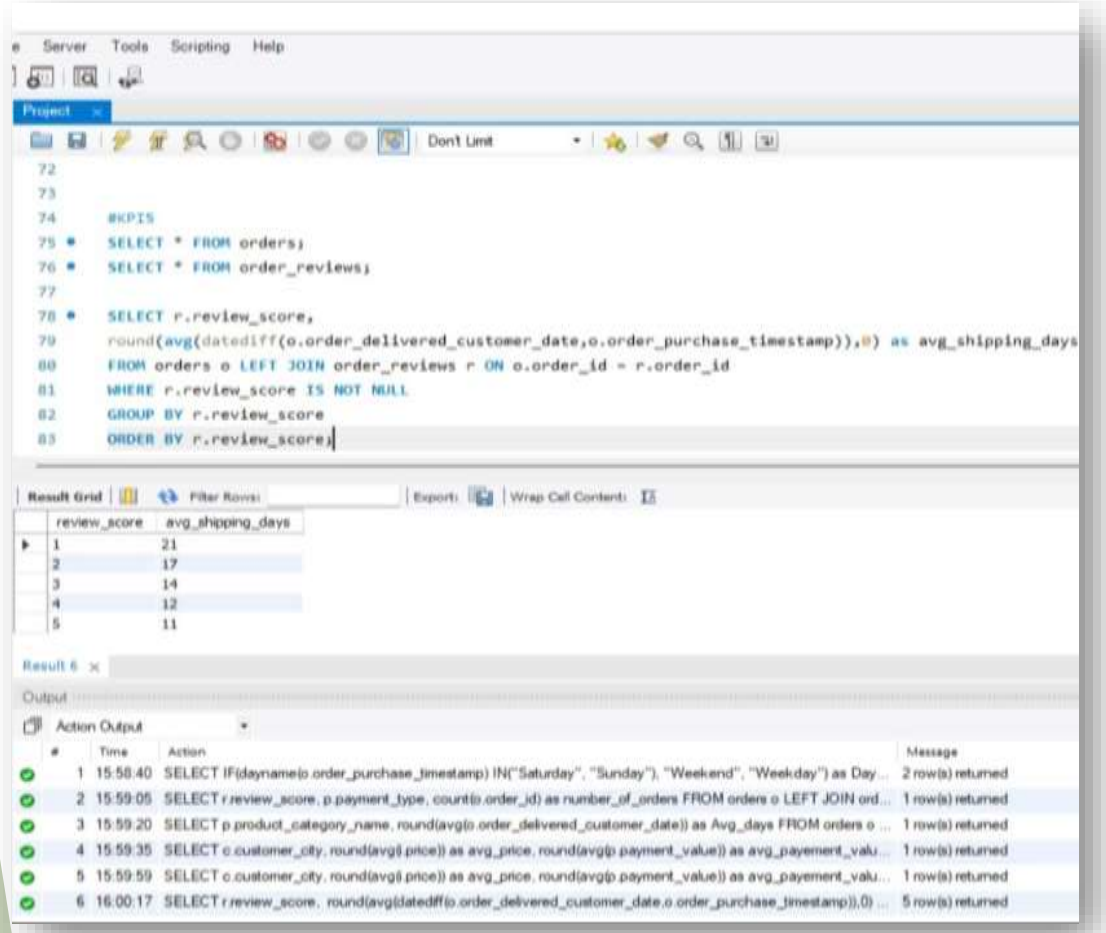


Average price and payment values from customers of sao paulo city

- Reveals their spending habits and purchasing power of customers.
- Helps the Olist to identify segments of high-value customers within this demographic.
- Olist can tailor marketing campaigns to effectively target these customers,to increase sales and customer loyalty.

KPI-5

Average shipping days vs review scores.

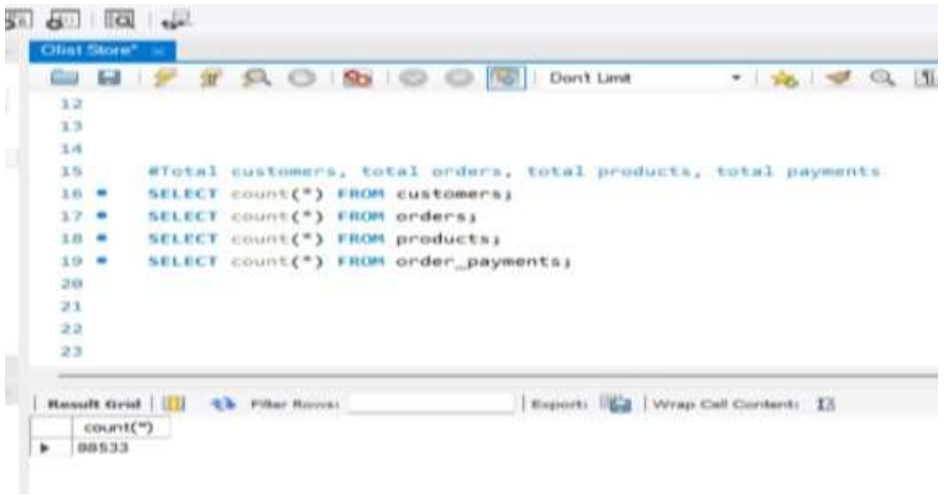


Relationship between shipping days (order_delivered_customer_date_order_purchase_timestamp) Vs review scores.

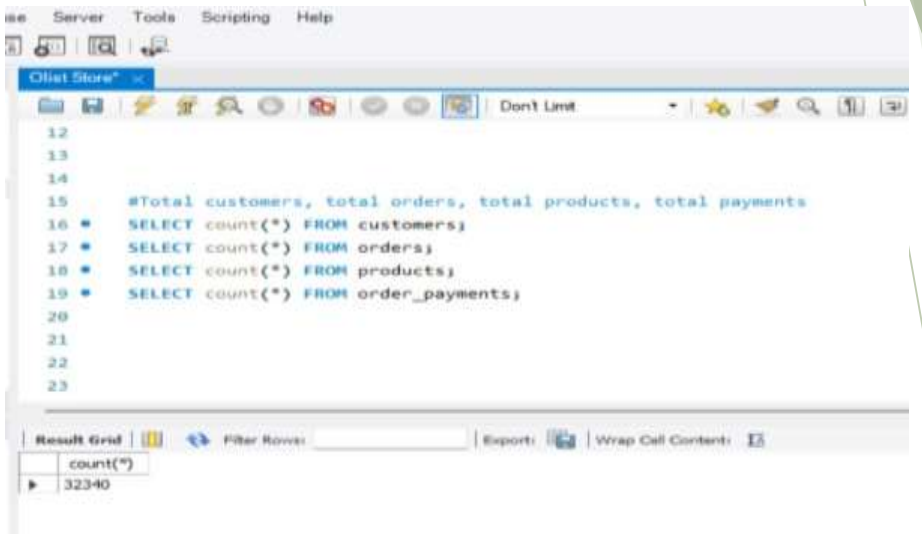
- This KPI measures how shipping days, time taken between order placement and delivery, correlate with review scores.
- This helps how delivery speed influences customer satisfaction levels.

Additional Insights

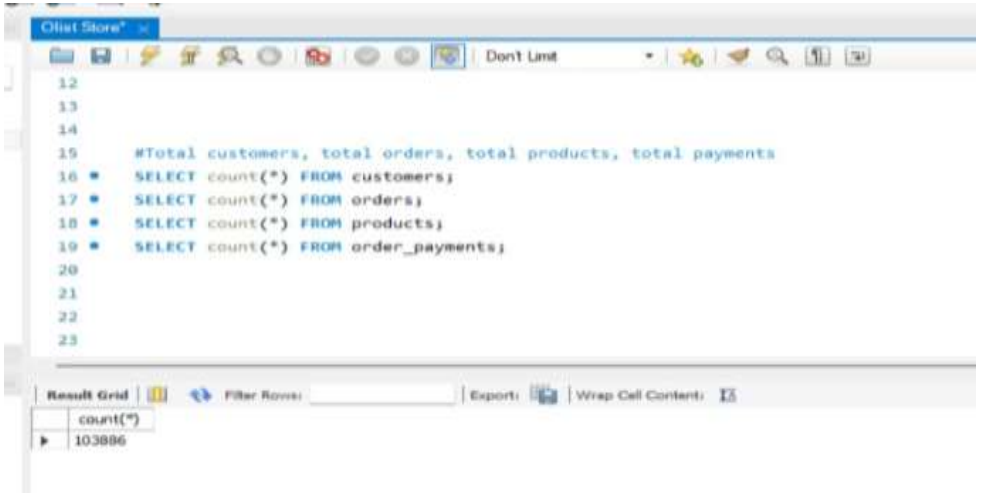
Total Orders



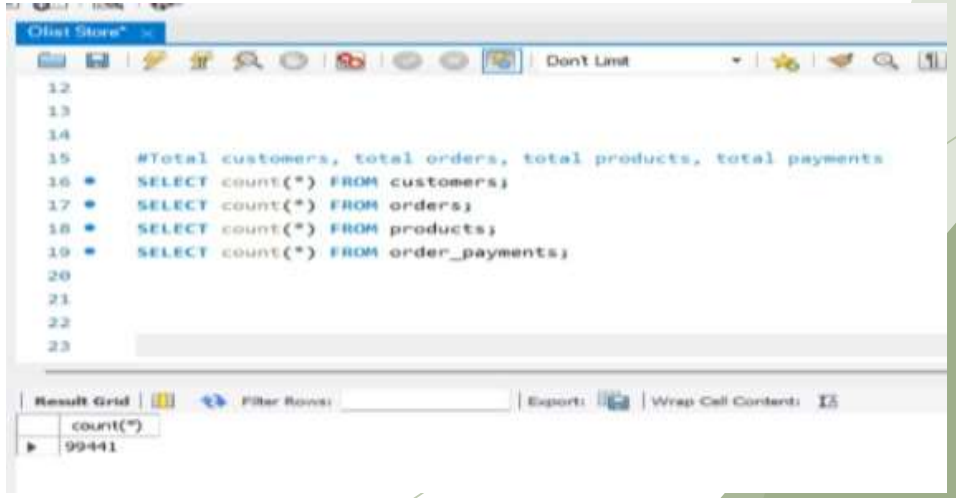
Total Products



Total Payments



Total Customers



Excel Dashboard

Olist Store Analysis

TOTAL PAYMENTS	TOTAL COST	TOTAL DELIVERED ORDERS	TOTAL CATEGORIES
BRL 1,64,13,535	BRL 1,28,99,322	1,04,287	1,04,294

Year: 2016 | 2017 | 2018

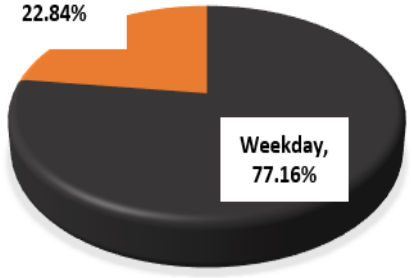
Quarter: 1 | 2 | 3 | 4

Month: January | February | March | April | May | June

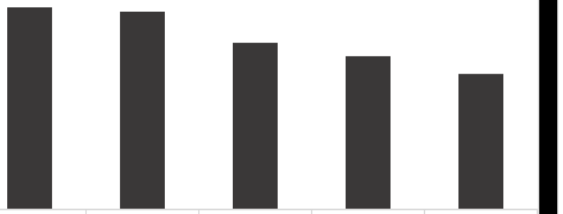
Day: Monday | Tuesday | Wednesday | Thursday | Friday | Saturday

State: AC | AL | AM | AP | BA | CE

WEEKDAY VS WEEKEND PAYMENT STATISTICS

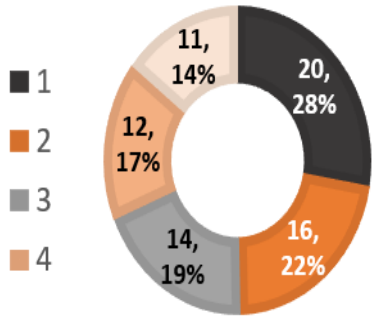


Top 5 Product Category



	beleza_saude	relogios_presentes	cama_mesa_banho	esporte_lazer	informatica_acessorios
Total	1218325.1	1193844.26	1002201.76	927935.36	815005.77

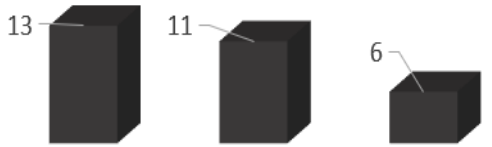
AVERAGE SHIPPING DAYS VS REVIEW SCORES.



Bottom 5 Product Category

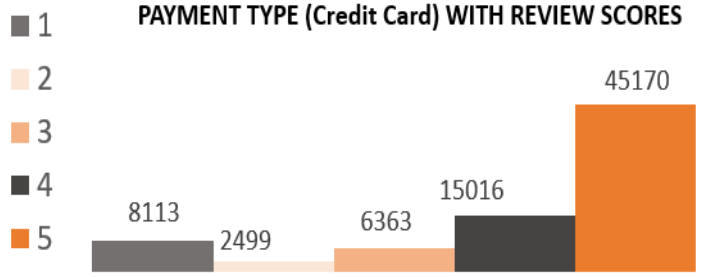
	flores	casa_conforto_2	cds_dvds_musicais	fashion_roupa_infanto_juvenil	seguros_e_servicos
Total	962.94	695.77	640	519.95	283.29

AVERAGE NUMBER OF DELIVERY DAYS

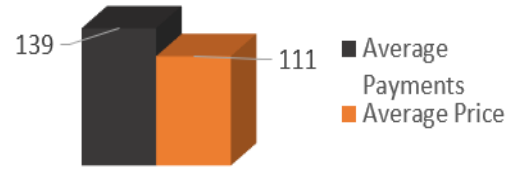


	moveis_decoracao	pet_shop	artes_e_artesanato
Total	13	11	6

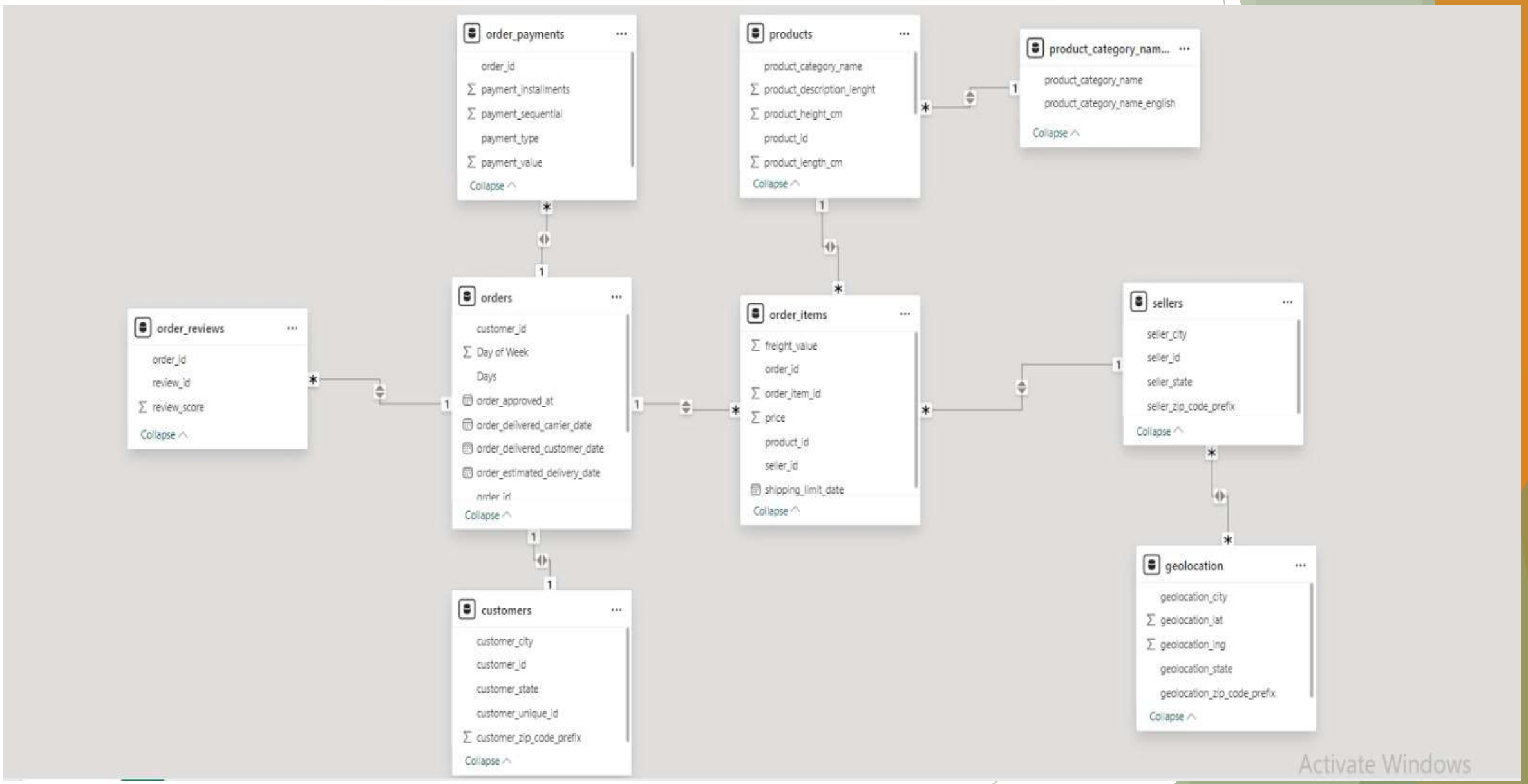
PAYMENT TYPE (Credit Card) WITH REVIEW SCORES



AVERAGE PRICE AND PAYMENT VALUE OF SAO PAULO CITY



Power BI Data Modelling



Power BI Dashboard

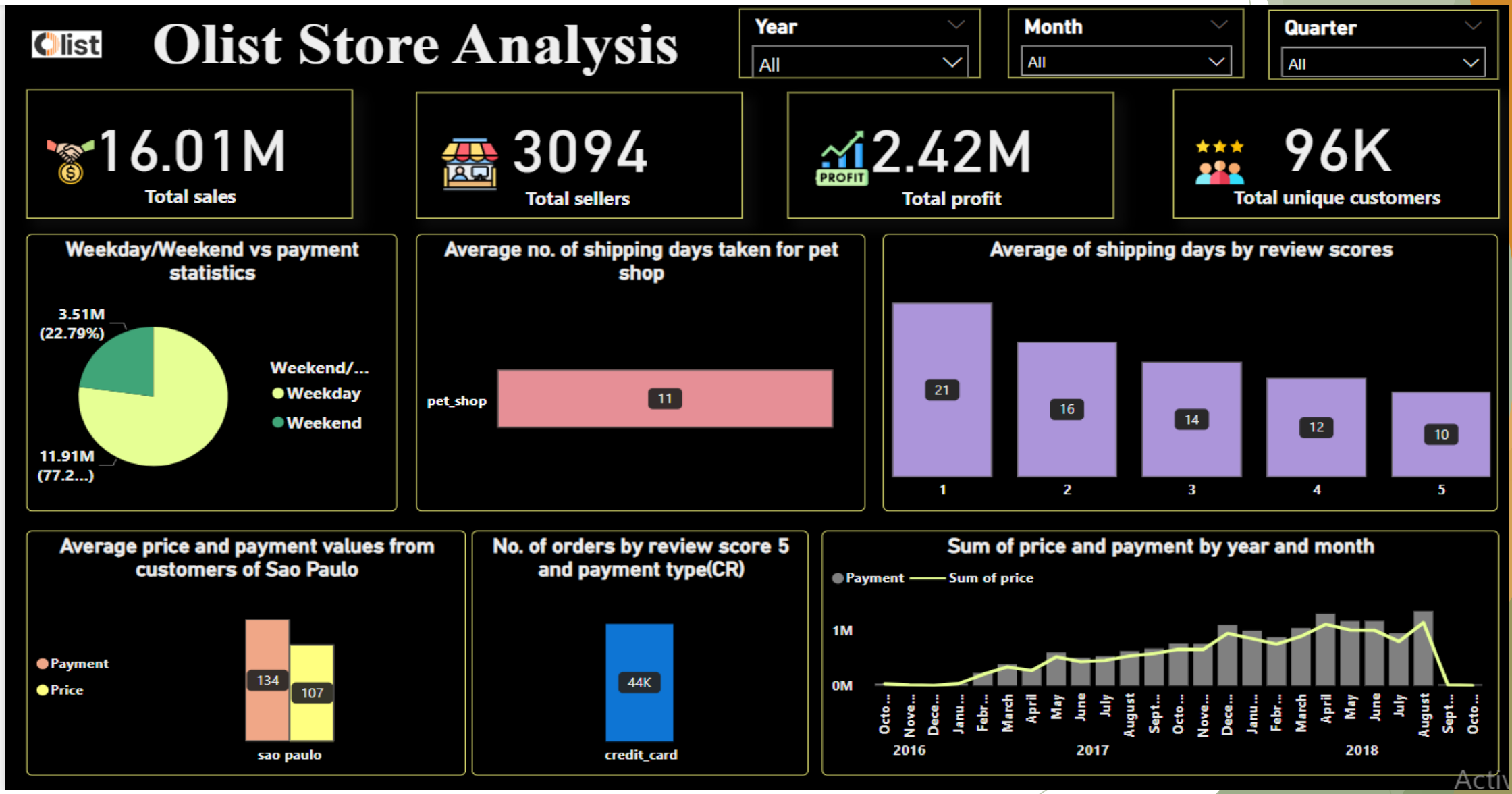


Tableau Dashboard

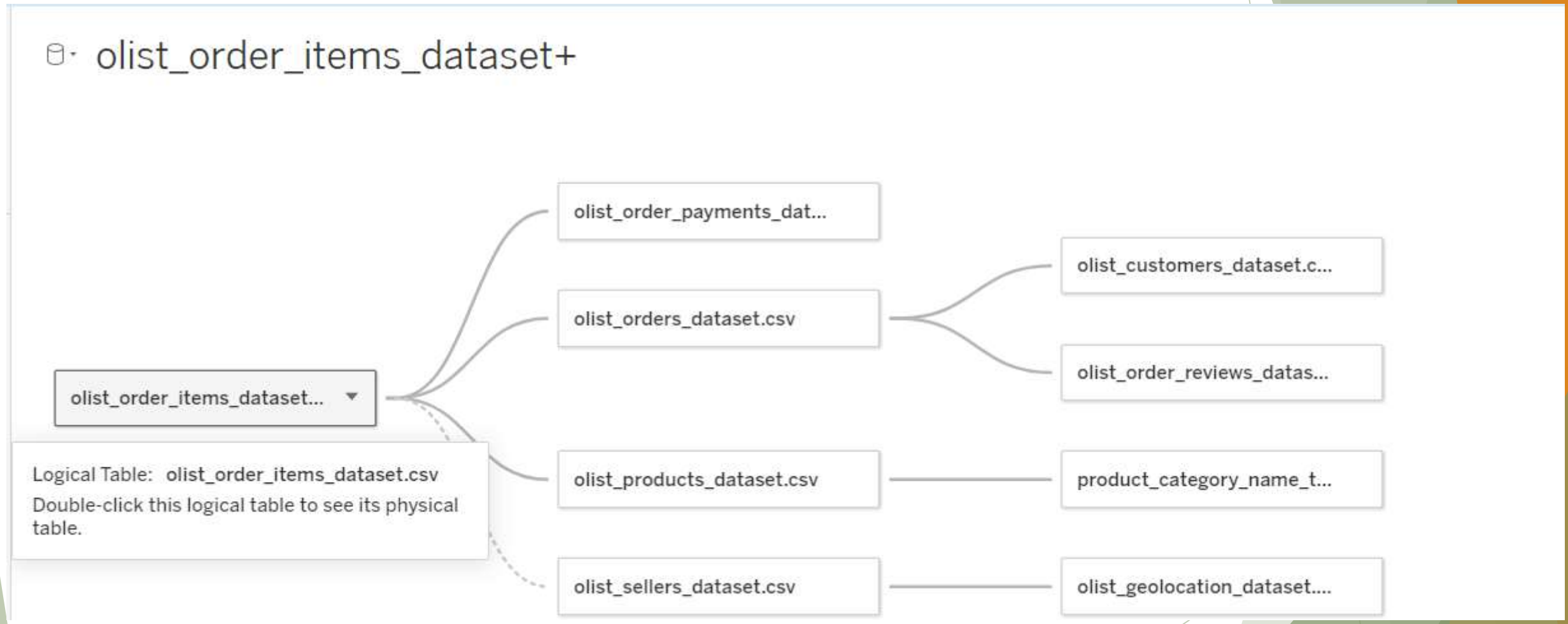


Tableau Dashboard

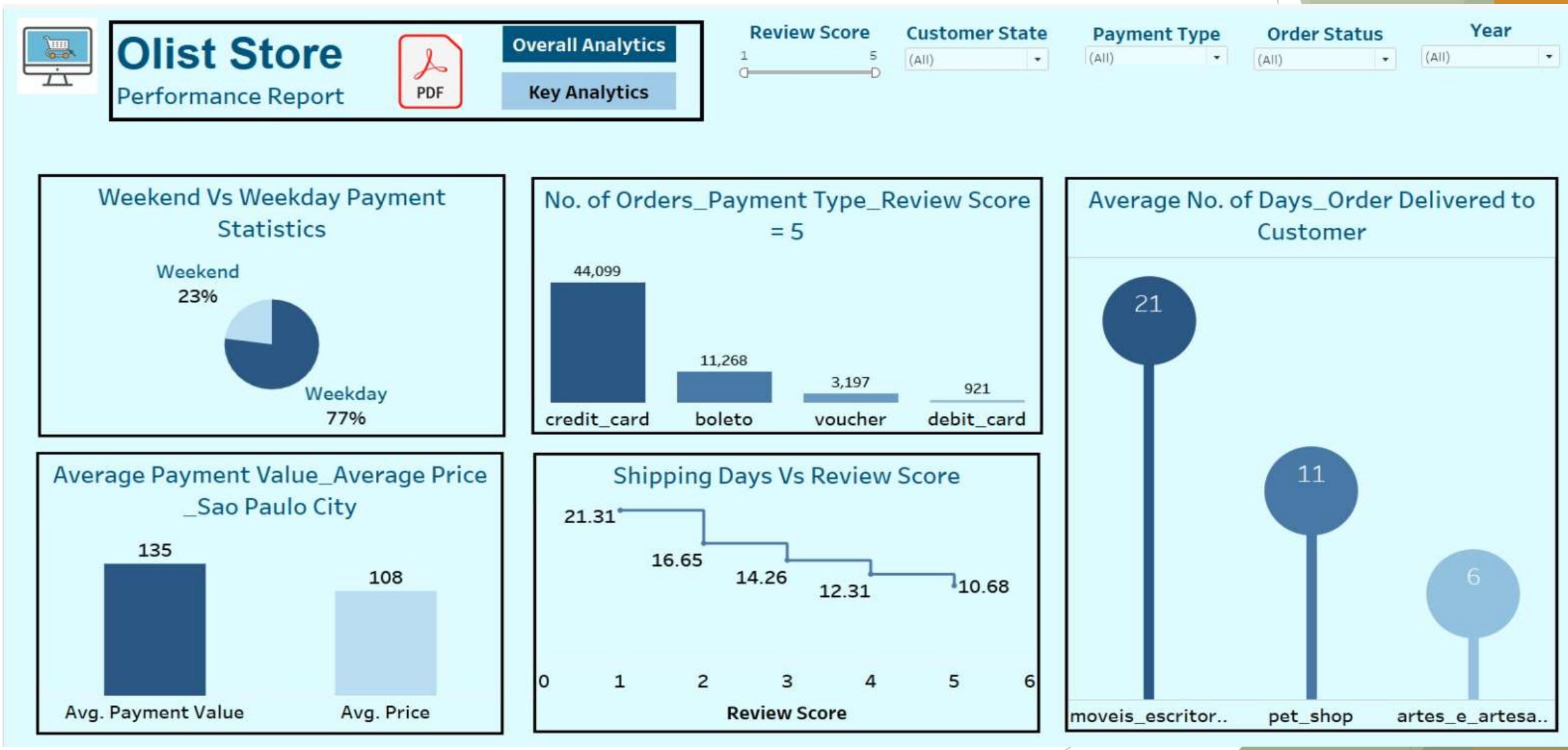


Tableau Dashboard

Olist Store
Performance Report

PDF

Key Analytics

Overall Analytics

Review Score 1 5

Customer State (All)

Payment Type (All)

Order Status (All)

Year (All)

98,673
Total Orders

1,11,708
Total Products

4.09
Avg. Review Score

98,673
Total Customers

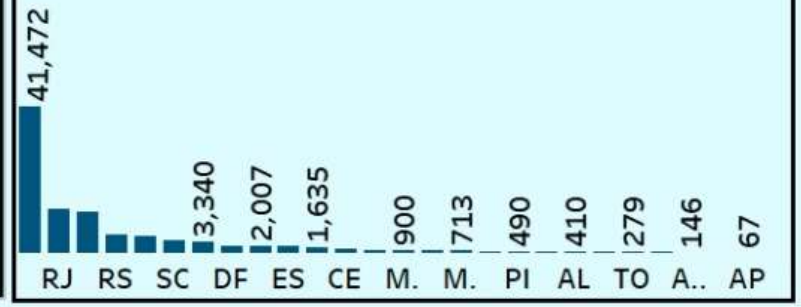
2.23M
Total Freight

13.47M
Total Price

Top 10 Selling Products (Total Order)

Bottom 10 Products (Total Orders)

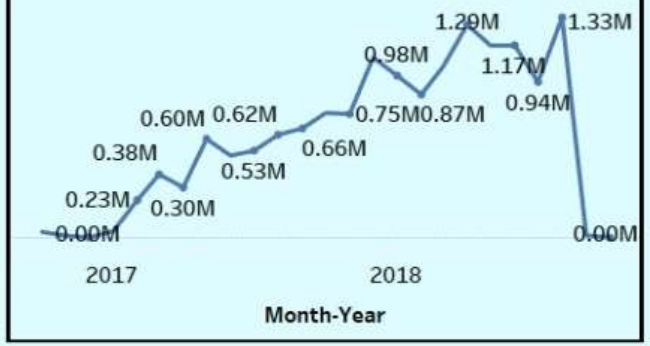
Total Customers_State wise



Order Status

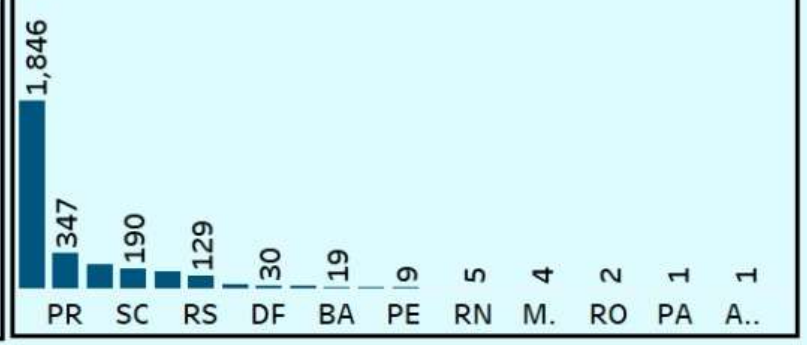
delivered	95,832
shipped	1,032
canceled	605
unavailable	595
invoiced	309
processing	295
created	3
approved	2
Grand Total	98,673

Monthwise Sales Performance



Delivery Performance

Total Sellers_State wise



Insights

- According to the data, Olist E-commerce has about 99,440 orders. With about 89,940 orders being delivered, the company has a 90% delivery success rate.
- Their average product rating is 4.09 stars, with product categories going as high as 4.67 stars and as low as 2.5 stars.
- I Star reviews are on third place in the review score distribution ranking which likely indicates that there could be problems with product quality in some product categories.

Summary

- Overall, regular monitoring of customer reviews, real-time tracking of fleet performance, and proper shipment tracking and communication system can improve Olist's delivery and supply chain performance and ensure customers are delighted with the service.

Conclusion

- The Olist Store Analysis project provides valuable insights into customer behavior and payment statistics. The analysis of these KPIs helps Olist in identifying areas of improvement and creating targeted marketing campaigns.
- As a data analyst, We have used Excel and Power BI to clean and manipulate the dataset
- We have Used Power Bi & Tableau to create meaningful visualizations.
- We have used SQL for data validation


Thank you