Shop Nest Store Capstone

Data Cleaning:

Here's a summary of the datasets and the presence of null values and duplicates:

1. Orders Dataset:

- Null Values: Some columns like order_delivered_carrier_date and order delivered customer date have
- Duplicates: None.

2. Products Dataset:

- Null Values: Multiple columns such as product_category_name, product_name_lenght, product_description_lenght, etc., have nulls
- Duplicates: None.

3. Sellers Dataset:

- Null Values: No null values.
- Duplicates: None.

4. Product Categories Dataset:

- Null Values: No null values.
- Duplicates: None.

5. **Geolocation Dataset**:

- Null Values: No null values in most columns, except for geolocation_city and geolocation_state (but these have minimal nulls).
- Duplicates: 261,836 duplicate rows.

6. Customers Dataset:

- Null Values: No null values.
- Duplicates: None.

7. Order Items Dataset:

- Null Values: No null values.
- Duplicates: None.

8. Order Payments Dataset:

- Null Values: No null values.
- Duplicates: None.

9. Order Reviews Dataset:

- Null Values: Columns review_comment_title and review_comment_message have significant nulls
- Duplicates: None.

Set Up Data Model

- **Create relationships**: Once all datasets are imported, create relationships between them in the **Model** view. For example:
 - Link orders dataset with order items dataset via order id.
 - o Link order items dataset with products dataset via product id.
 - o Link order payments dataset with orders dataset via order id.
 - o Link order reviews dataset with orders dataset via order id.
 - Link geolocation_dataset with orders_dataset via customer_id or any other relevant relationship.

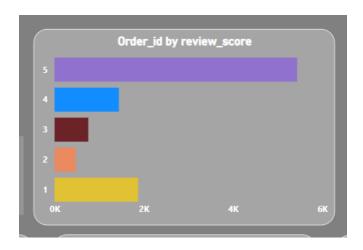
Dashboard Report

1. Total Orders by State

Description: This section represents the total number of orders placed from each state.
The metric Total order by State provides an overview of the geographical distribution of
the orders, showing that there are 9,358 total orders across all states. This visualization
can be used to identify which state has the highest number of orders, helping to assess
regional sales performance.

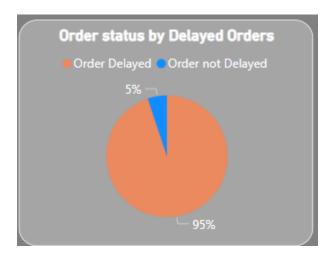
2. Average Rating of Orders

Description: The Average Rating for products is calculated to be 4, which indicates a
generally positive customer experience. This value is derived from the review_score in
the order_reviews_dataset. The bar chart visualizing the Order_id by review_score
reveals that most products have received a rating of 5, which represents the best
customer feedback.



3. Order Status by Delayed Orders

Description: The Order Status analysis provides insight into the percentage of delayed orders. According to the dashboard, 5% of the orders were delayed, while the remaining 95% of the orders were delivered on time. The pie chart represents this distribution, with the orange section representing delayed orders and the grey section representing on-time orders. This information is valuable for improving delivery timelines and operational efficiency.



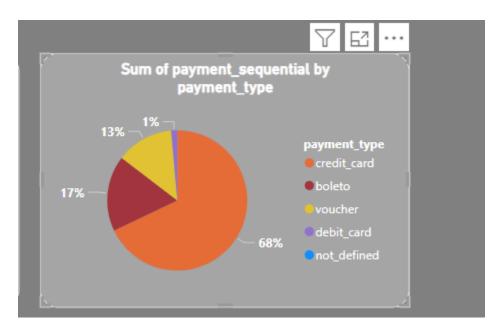
4. Count of Order IDs by Delayed Orders

• **Description**: This chart shows the **Count of Order IDs** by their delay status. The bar chart reveals that there is a significant difference in the number of on-time versus delayed orders. This comparison helps in understanding how the business is performing in terms of timely deliveries and identifying areas for improvement in the supply chain.



5. Payment Method Breakdown

Description: The Sum of Payment Sequential by Payment Type pie chart shows the
breakdown of payment methods used by customers. The data reveals that 68% of the
payments were made via credit card, followed by 13% using boleto and 17% using
debit cards. This analysis provides insights into customers' preferred payment methods,
allowing for targeted marketing strategies and payment method optimization.



6. Total Sales by Product Category

• **Description**: The **Sum of Total Price by Product Category** bar chart visualizes the total sales across different product categories. The top category, "cama_mesa_banho", leads with the highest sales. The chart helps identify the most and least profitable product categories, providing valuable information for inventory and sales strategy planning.

