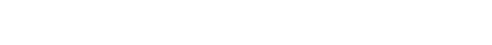


FINAL PROJECT

DATA ANALYST Batch #31

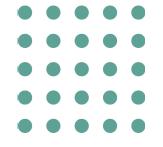


RINDI PASMAWI SYA'BAN

BEGINNER LEVEL







MARKETPLACE BESAR di Brazil



OLIST

menghubungkan bisnis kecil dan menengah dengan platform e-commerce besar.





Objective



Customer Demographic

Mengelompokkan pelanggan



Order Behaviour

Menentukan pola pemesanan



Review Customer

Mengukur tingkat kepuasan pelanggan berdasarkan ulasan yang diberikan



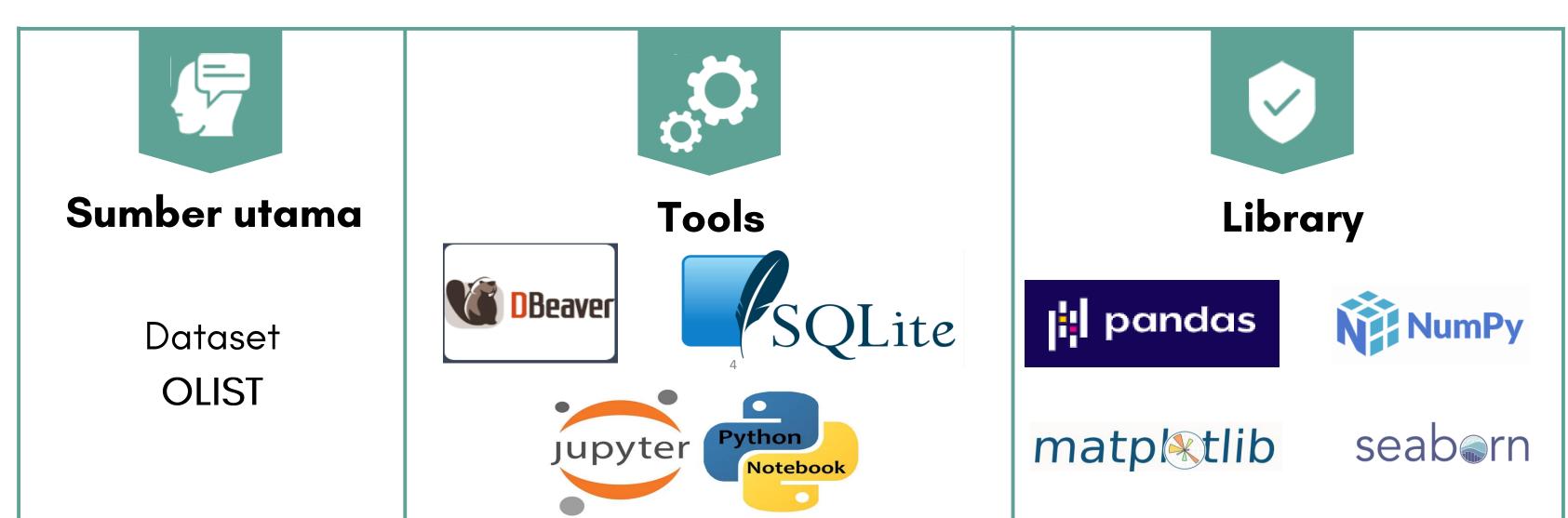
Time Series Analysis

Menentukan tren
penjualan berdasarkan
periode waktu tertentu



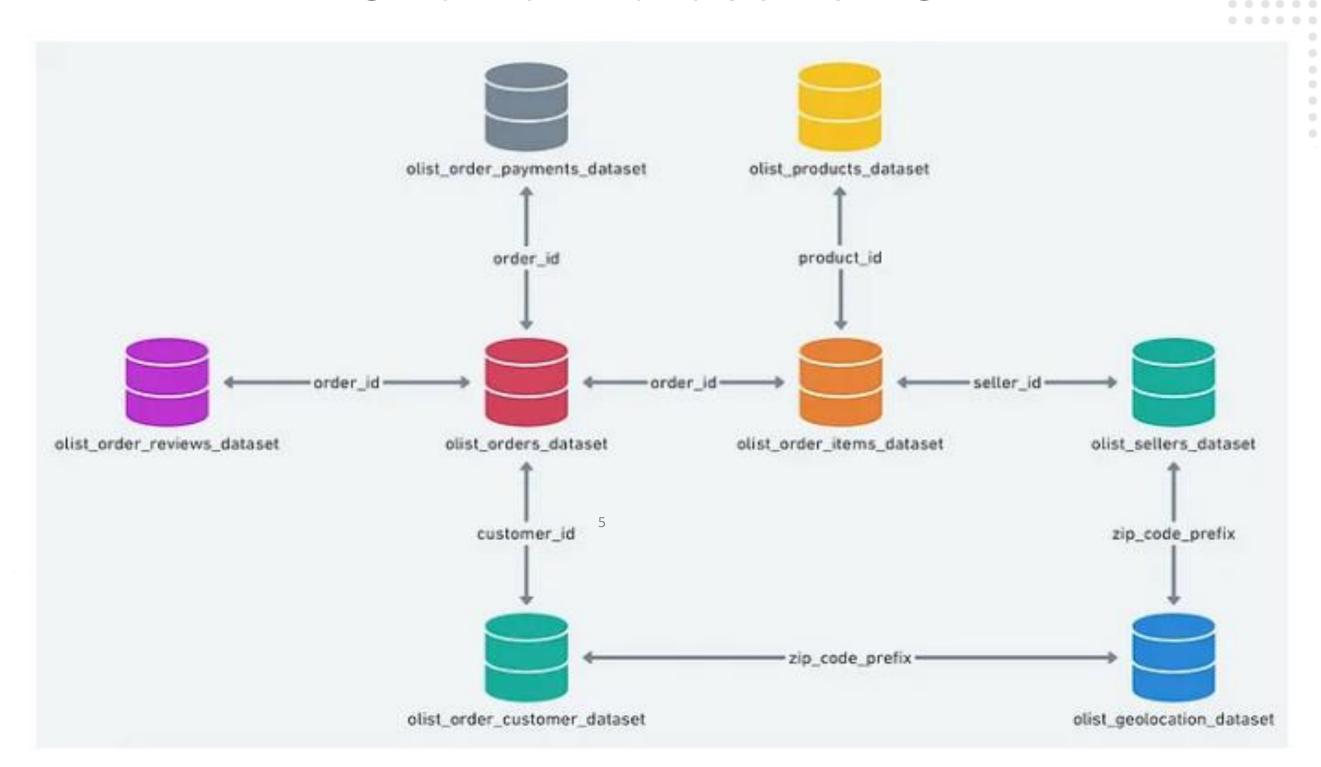








Struktur Dataset OLIST



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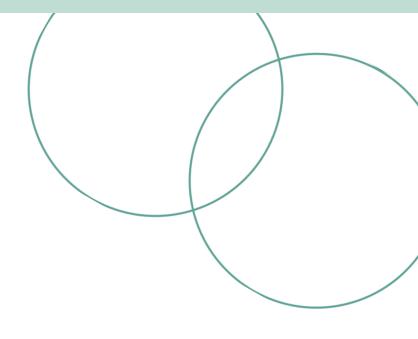


Cek kolom df.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 119143 entries, 0 to 119142

Data columns (total 40 columns):

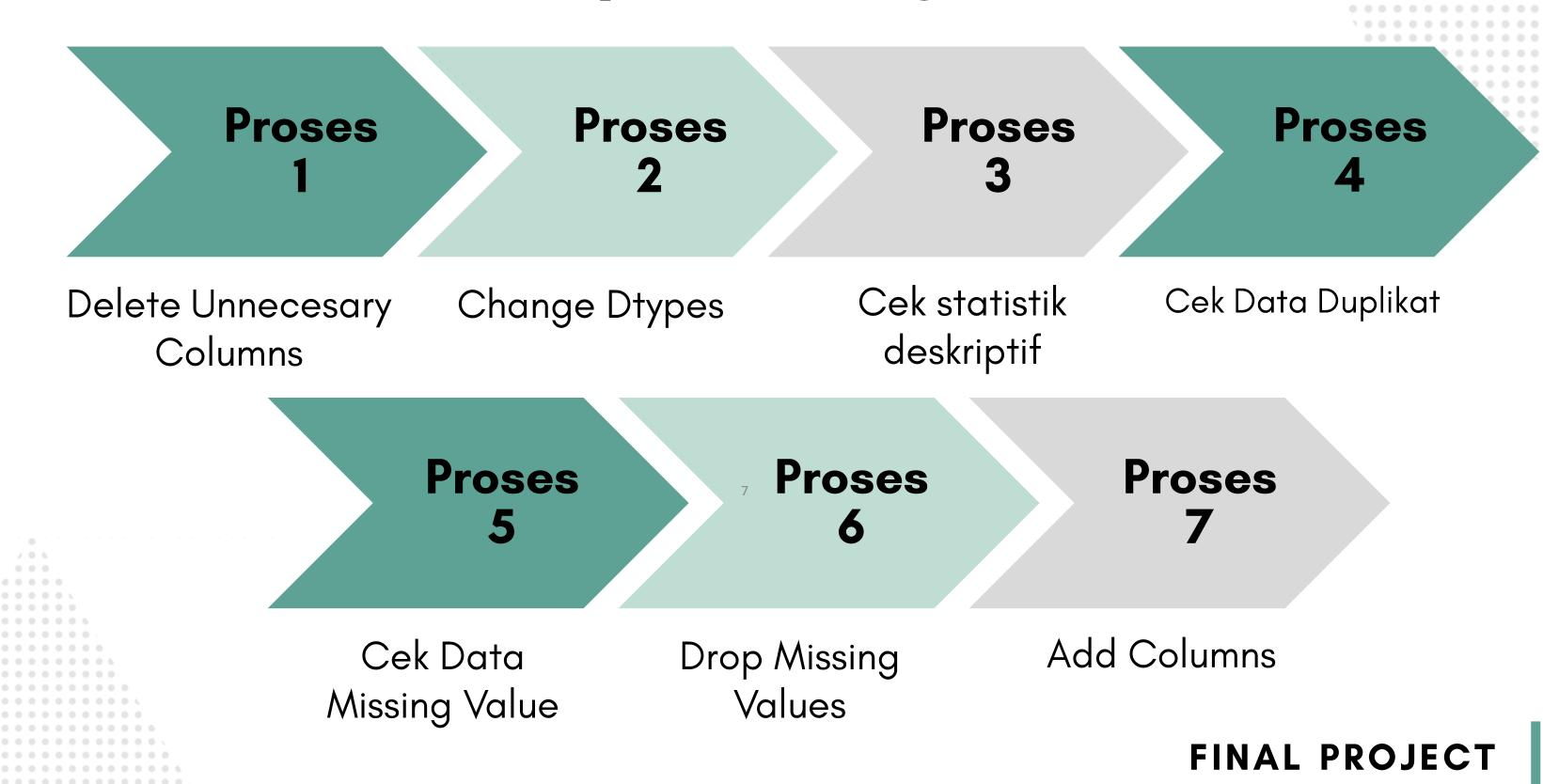
#	Column	Non-Null Count	Dtype				
0	order_id	119143 non-null	object	21	product photos qty	118310 non-null	object
1	customer_id	119143 non-null	object	22	product weight g	118310 non-null	object
2	order_status	119143 non-null	object	23	product length cm	118310 non-null	object
3	order_purchase_timestamp	119143 non-null	object	24	product height cm	118310 non-null	object
4	order_approved_at	119143 non-null	object	25	product width cm		_
5	order_delivered_carrier_date	119143 non-null	object	26	product_category_name_english	116576 non-null	_
6	order_delivered_customer_date	119143 non-null	object				_
7	order_estimated_delivery_date	119143 non-null	object	27	seller_zip_code_prefix	118310 non-null	_
8	customer_unique_id	119143 non-null	object	28	seller_city	118310 non-null	object
9	customer_zip_code_prefix	119143 non-null	object	29	seller_state	118310 non-null	object
10	customer_city	119143 non-null	object	30	payment_sequential	119140 non-null	object
11	customer_state	119143 non-null	object	31	payment_type	119140 non-null	object
12	order_item_id	118310 non-null	object	32	payment installments	119140 non-null	object
13	product_id	118310 non-null	object	33	payment value	119140 non-null	object
14	seller_id	118310 non-null	object	34	review id	118146 non-null	_
15	shipping_limit_date	118310 non-null	object	35	review score	118146 non-null	object
16	price	118310 non-null	object	36	review comment title	118146 non-null	object
17	freight_value	118310 non-null	object				_
18	product_category_name	118310 non-null	object	37	review_comment_message	118146 non-null	object
19	product_name_lenght	118310 non-null	object	38	review_creation_date	118146 non-null	object
20	product_description_lenght	118310 non-null	object	39	review_answer_timestamp	118146 non-null	object



40 Kolom dan 119143 Baris



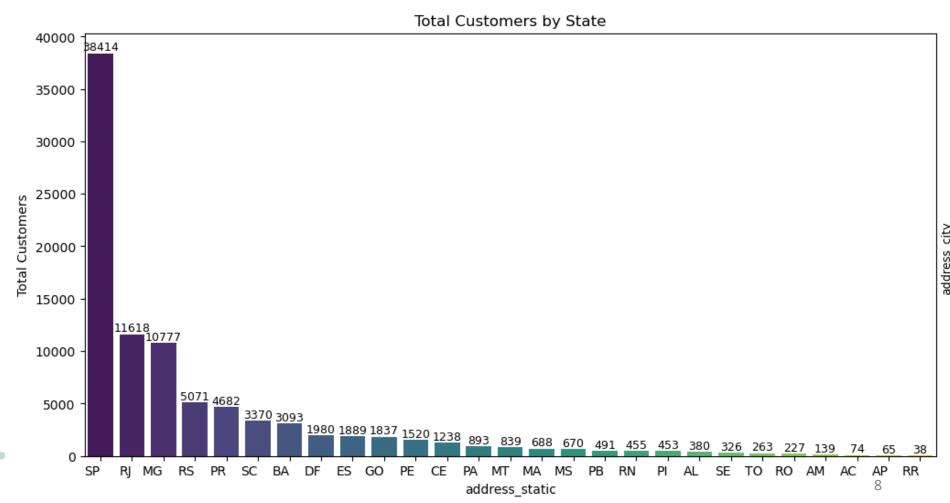
Preprocessing Data

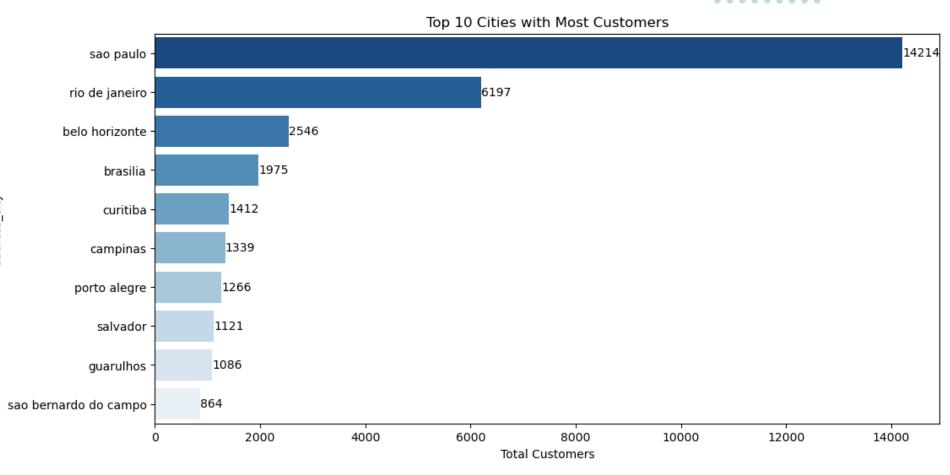




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Customer Demographic



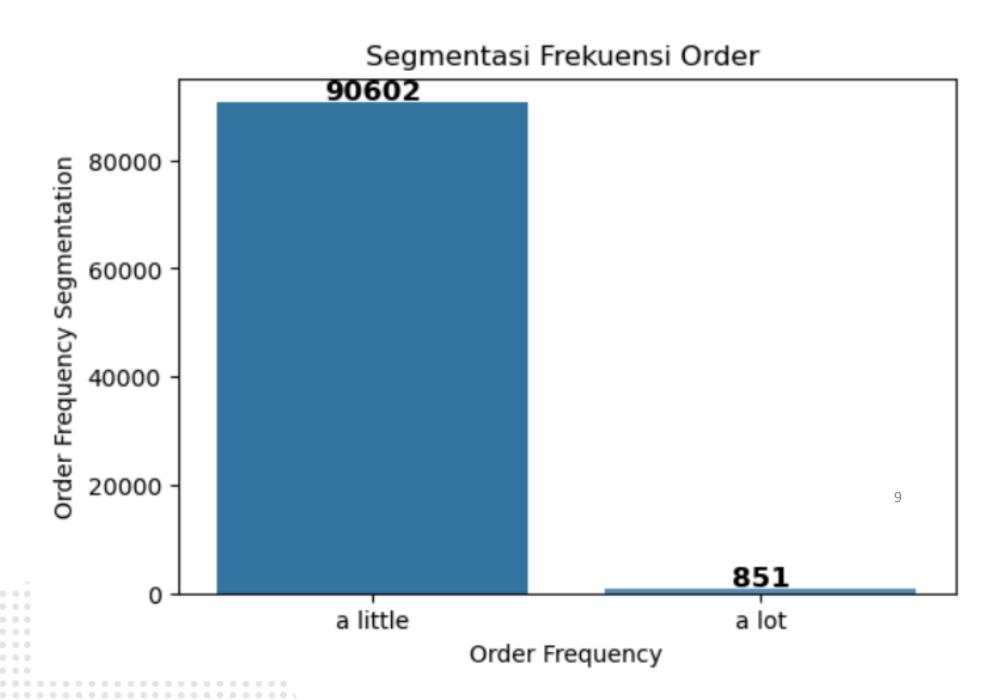


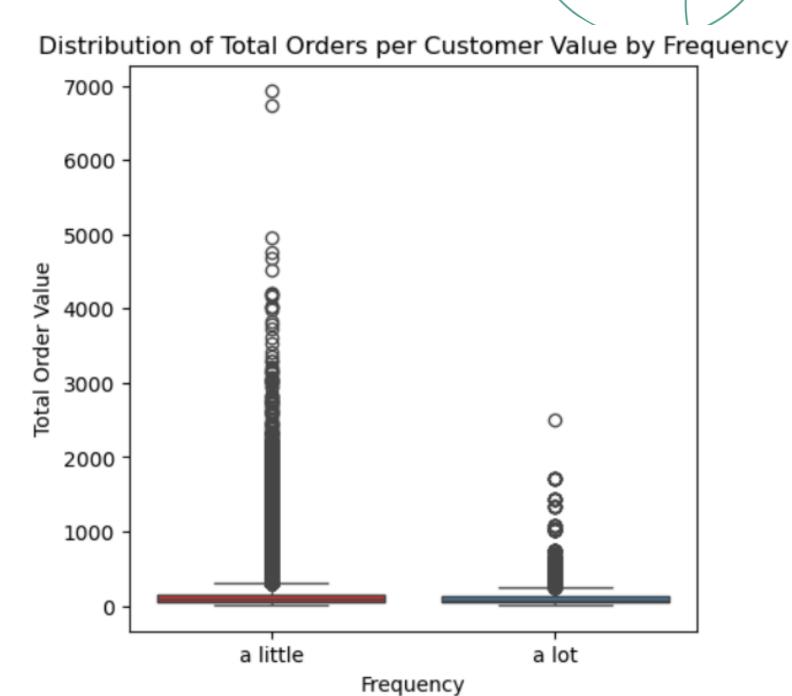
Top State with Highest Customers

Top City with Highest Customers



Customer Frequency Segmentation

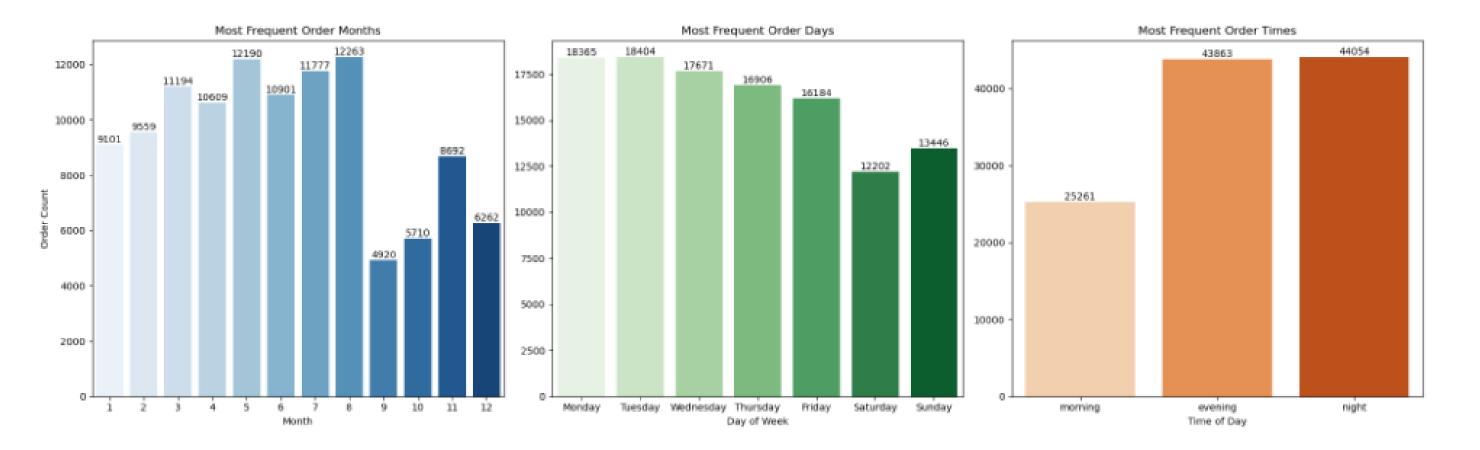






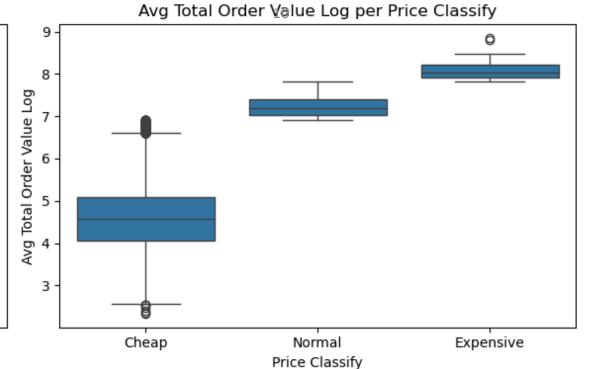
Order Behavior

The Most Frequent
Order Times



Distribution Order Frequency by Price Classify



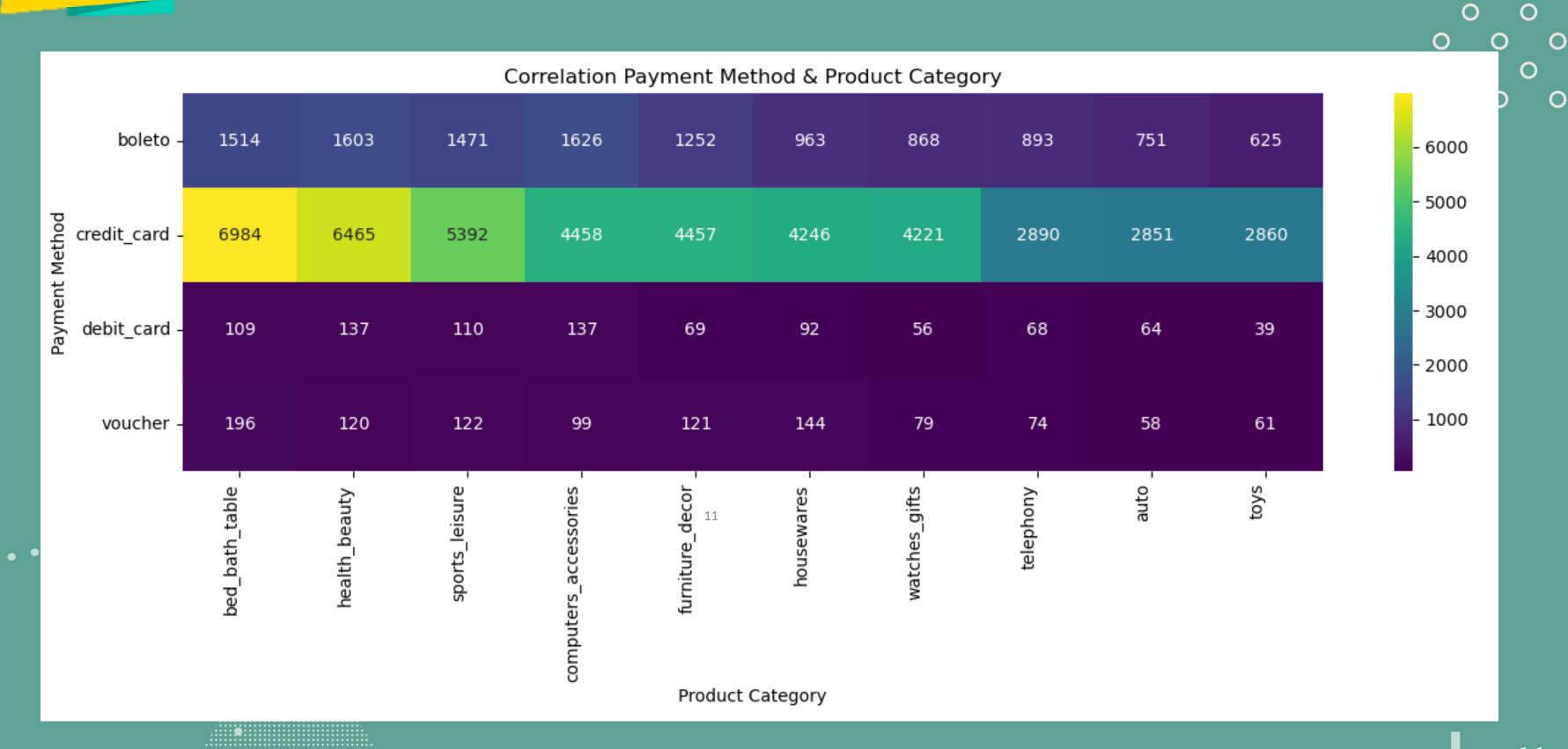


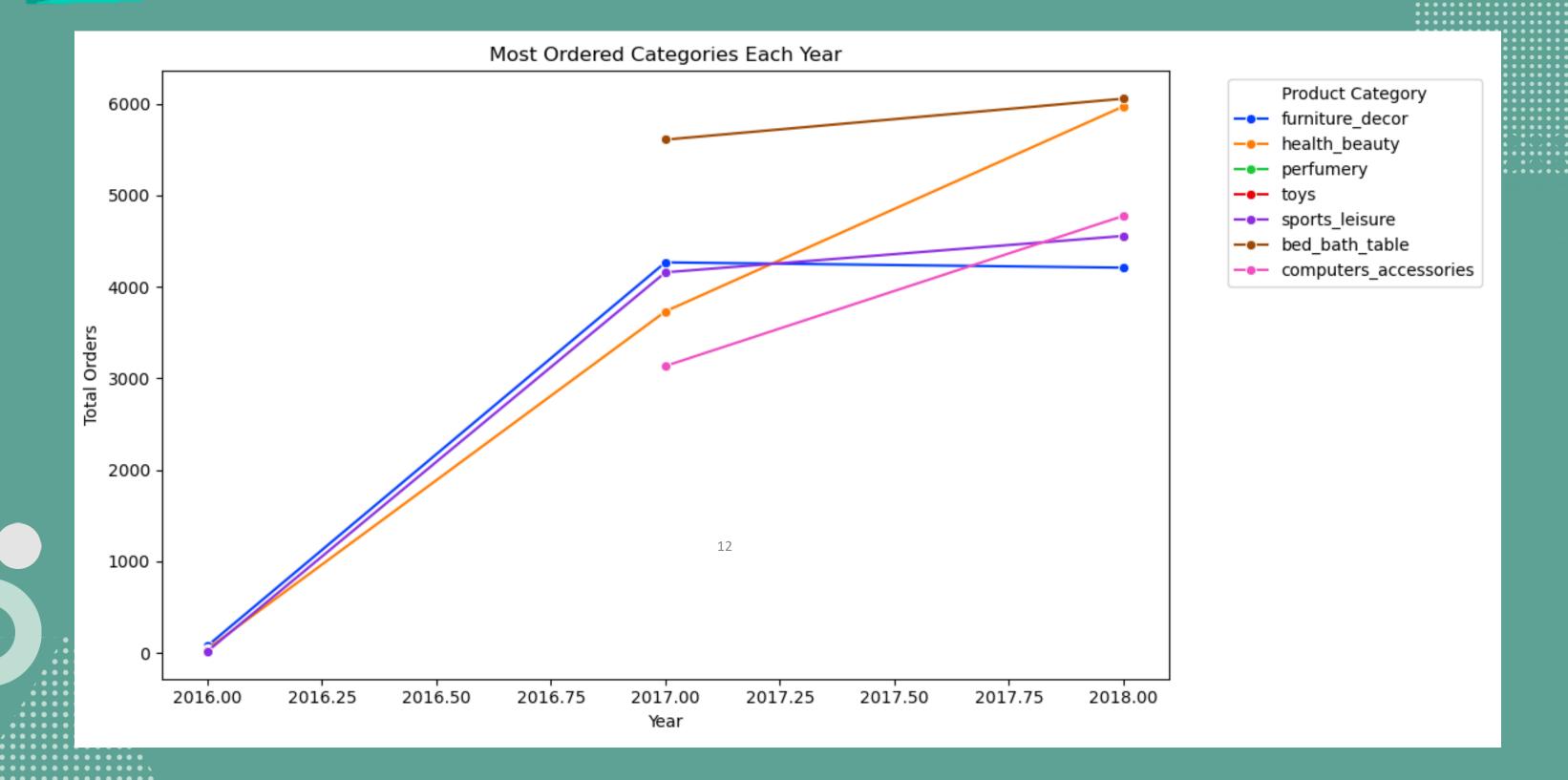
price_classify
Cheap 132.271654 124.797070 95.220 9.341429 997.37
Expensive 3325.032627 874.499093 3042.360 2512.530000 6929.31
Normal 1420.627555 362.094795 1323.545 1002.710000 2467.33

FINAL PROJECT

10



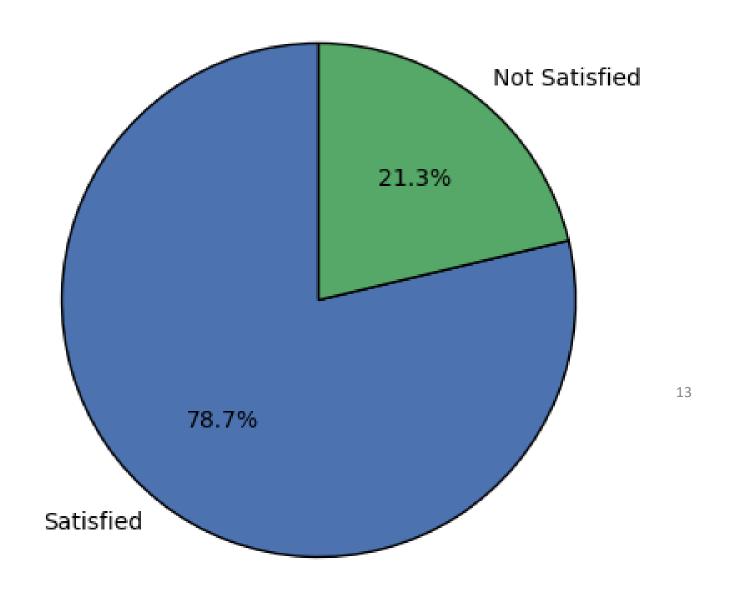




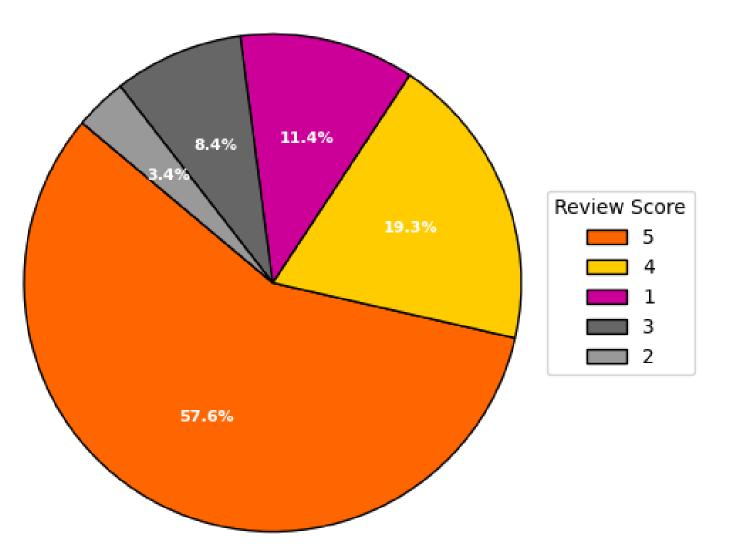


Review Customer





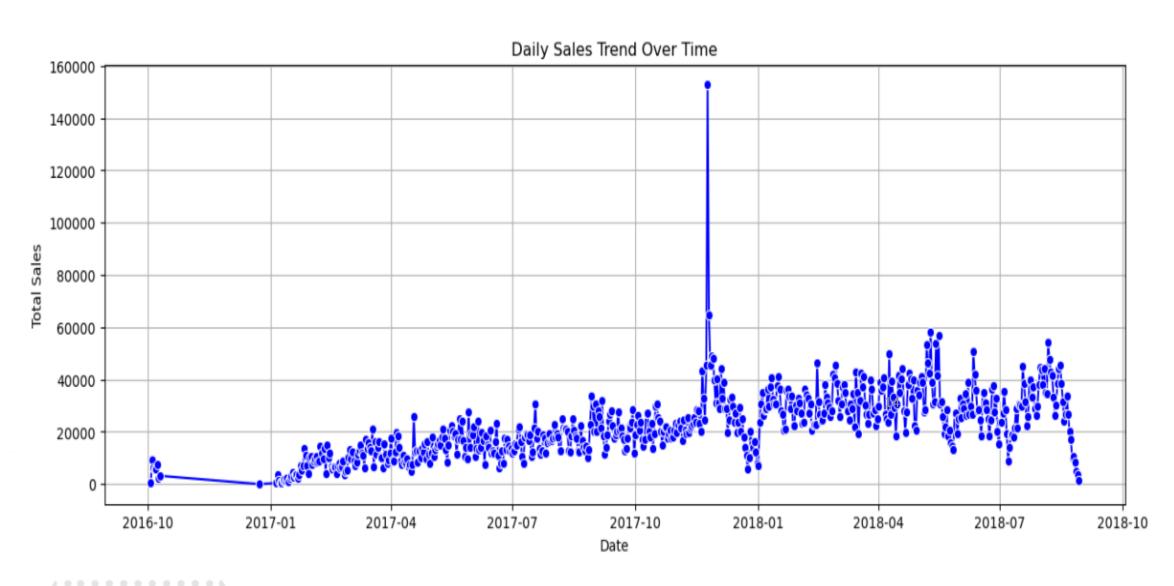
Persentase Review Score

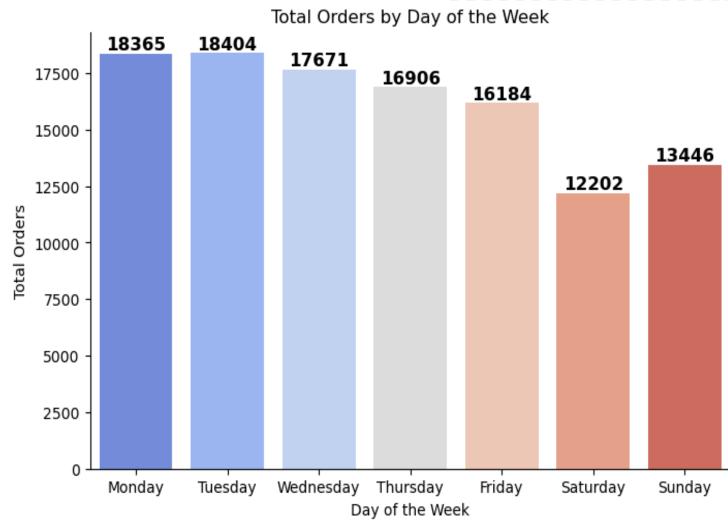






Time Series Analysis









KESIMPULAN

01. Customer Demografi

- Mayoritas customer dari kota besar: Sao Paulo,
 Rio de Janeiro
- Persebaran belum merata secara geografis

02. Perilaku Pemesanan

- Sebagian besar customer hanya melakukan 1 kali pembelian.
- Waktu pembelian tertinggi: bulan Agustus, Senin-Rabu, dan Sore hari Malam hari.

03. Kualitas Produk & Layanan

- Customer puas: skor review 4 dan 5 mendominasi.
- Sekitar 12% customer memberi skor 1–2, menandakan ada area untuk perbaikan.





KESIMPULAN

04. Kategori & Harga Produk

- Produk murah lebih laris, menunjukkan customer sensitif harga.
- Kategori yang meningkat tiap tahun: bad_bath_table, health_beauty, furniture_decor.

05. Metode Pembayaran

- Karţu kredit adalah metode paling populer.
- Menunjukkan preferensi pada transaksi **cepat dan** fleksibel.





Recommendations/ Suggestions

Retensi Customer

- Pancing Repeat Order ke customer 1x transaksi.
- Buat program loyalitas/reward untuk customer aktif.

Prioritas Target Pasar

• Fokus ke wilayah dengan banyak customer.

Optimalisasi Momen Musiman

- Maksimalkan momen seperti Adanya Lonjakan Pada Akhir Tahun 2017.
- Persiapkan stok & logistik lebih awal.



Recommendations/ Suggestions

Evaluasi Layanan

- Analisis **ulasan buruk** untuk deteksi masalah produk/penjual.
- Tingkatkan kontrol kualitas & layanan pelanggan.

Segmentasi Harga

- Tambahkan produk terjangkau namun tetap berkualitas.
- Fokus pada kategori populer
- Tawarkan bundling atau upsell untuk tingkatkan transaksi.

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Operasional & Pembayaran

- Fokus pada jam/hari sibuk: Senin-Rabu, Sore hari -Malam hari.
- Sediakan beragam metode pembayaran

Terima Kasih