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Hello, my name is Syafiq. I graduated from Gadjah Mada University with a Bachelor of Science in January, 2021. I am a detail oriented person with critical thinking skills and essential skills to work and perform well. Highly motivated to learn things and very interesting to solve problems by doing related data analysis. Therefore, I studied and deepened the field of Data Analyst and Data Science. Some of the projects I've worked on can be seen <a href="here">here</a>.

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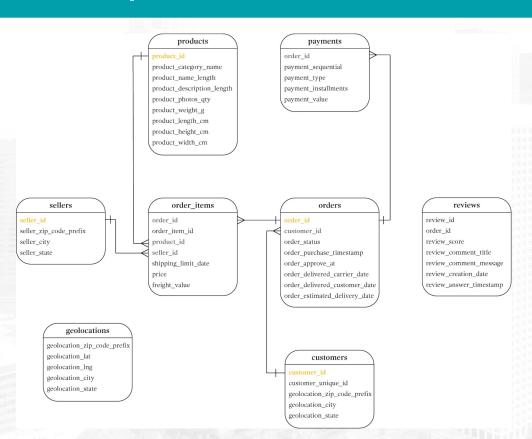
#### **Overview**



"In a company business performance measurement is very important to track, monitor, and assess the success or failure of various business processes. Therefore, in this paper, we will analyze the business performance for an eCommerce company, taking into account several business metrics, namely customer growth, product quality, and payment types."

#### **Data Preparation**

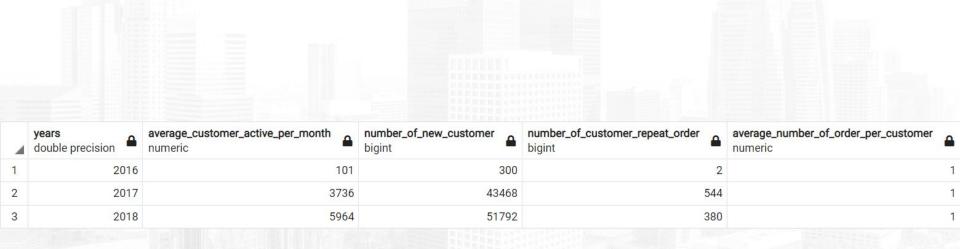




- The geolocation dataset does not make a relationship with other datasets, this is because the geolocation dataset has duplicate values in the geolocation\_zip\_code\_prefix column.
- The reviews dataset does not make a relationship with other datasets, this is because the reviews dataset has duplicate values, null and the value format is not appropriate.
- If both tables are required, further processing will be carried out.

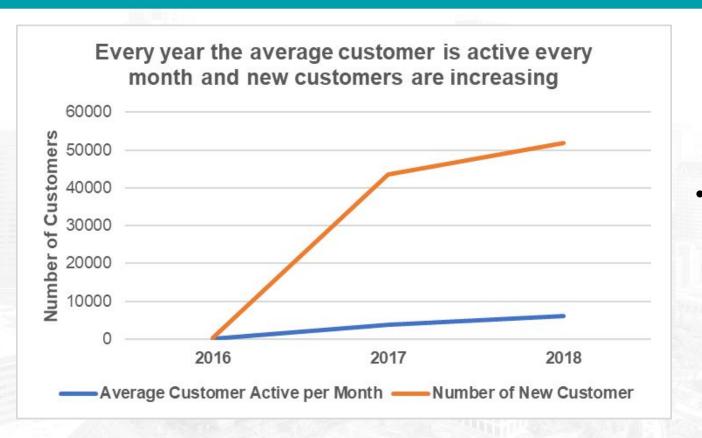
#### **Annual Customer Activity Growth Analysis**





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In 2016, the data provided started in September. Therefore, the increase from 2016 to 2017 is quite far.

## **Annual Customer Activity Growth Analysis**





 Because the data difference is quite far, I only compare 2017 and 2018.

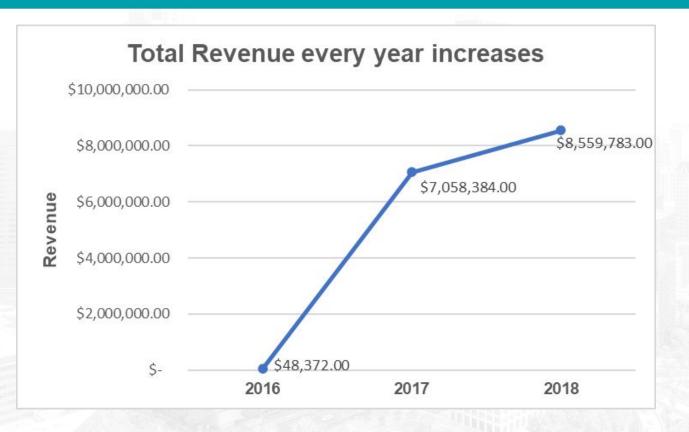
## **Annual Product Category Quality Analysis**



		total revenue	number of order consoled	and the second with highest total revenue	total revenue per product extensiv	product category with highest canceled	number_of_canceled_per_product_category_c
4	years double precision	double precision	number_of_order_canceled bigint	product_category_with_highest_total_revenue character varying (50)	double precision	character varying (50)	bigint
1	double precision 2016	double precision—	bigint	character varying (50)  furniture_decor	double precision 7189	character varying (50)	bigint 3
1 2		double precision—	bigint 26	character varying (50)	double precision 7189	character varying (50)	bigint 3

## **Annual Product Category Quality Analysis**

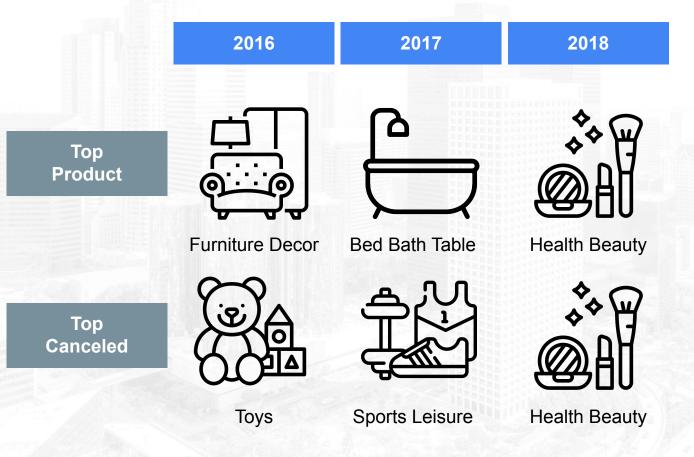




The total revenue continues to increase every year.

## **Annual Product Category Quality Analysis**





- Every year, the favorite products purchased by customers change.
- In 2018, Health Beauty's favorite product became the most favorite product as well as the most cancelled.

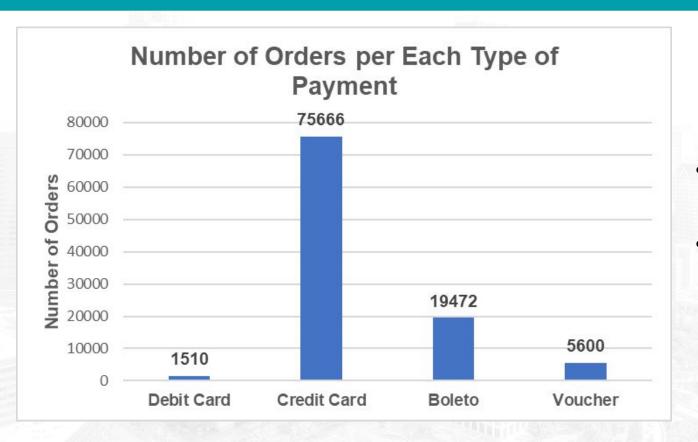
# **Analysis of Annual Payment Type Usage**



4	payment_type character varying (50)	total_orders numeric	year_2016 numeric	year_2017 numeric	year_2018 numeric	growth_rate_2017_2018 numeric
1	debit_card	1510	2	413	1095	165.13
2	credit_card	75666	217	33891	41558	22.62
3	boleto	19472	54	9307	10111	8.64
4	voucher	5600	22	2950	2628	-10.92

### **Analysis of Annual Payment Type Usage**

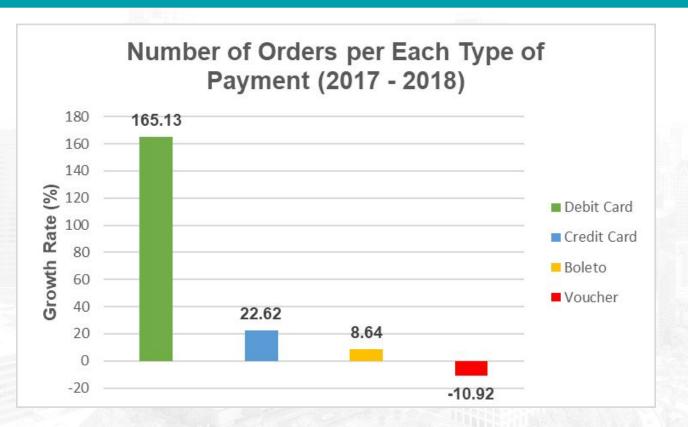




- Overall, the Credit Card payment method is the most widely used by customers.
- Meanwhile, the Debit Card payment method is the least used by customers.

#### **Analysis of Annual Payment Type Usage**





- The growth in the use of each type of payment is calculated from 2017 - 2018. Due to the small number in 2016, the amount of growth will be very large in 2017.
- The growth in the use of Voucher payment types decreased by 10.92% in 2018.

#### Conclusions



- Overall, the company's performance in 2016 2018 was quite good. This can be seen from the growth in the number of active customers every month, the number of new customers, and the increasing total income. However, on the other hand, the number of repeat orders decreased in 2017 - 2018.
- Every year, the favorite product category changes. In 2018, the favorite product category
  was health beauty. However, the product category is also the product category that is
  most canceled by customers. It is necessary to do further analysis of health beauty
  products in 2018.
- In 2016 2017, the Credit Card payment method is the favorite for customers to pay. Can collaborate with credit card type payment providers to get attractive promotional strategies.
- The use of the Voucher payment method decreased by 10.92% in 2018. Further analysis is needed to determine the cause of the decline.







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