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"I'm Tina, a young professional with a passion for the administration and management field who has just started a journey in the world of data science. This is my very first mini project with actual data. Cause I'm a newbie and this is my very first data analysis, I appreciate your feedback for a better analyst performance and a better me."

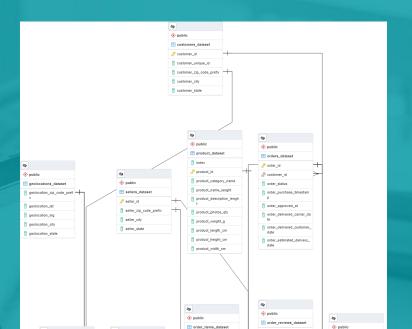
Overview



"In a company, measuring business performance is very important to track, monitor, and assess the success or failure of various business processes. Therefore, this paper will analyze business performance for an e-Commerce company, taking into account several business metrics, which are customer growth, product quality, and payment types."



Data Preparation



@ order_id

@ seller ic

shipping limit date

© geolocations_dataset_geol ∋

review_id

@ order_id

review_score

I review comment title

review_answer_timestamp

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Rakamin Academy
Career Acceleration School
www.rakamin.com

er zip code prefix



morder_payments_dataset

payment sequential

payment installments

avment type

payment_value



Entity Relationship Diagram



Create Table

Used query create table to make the tables



Alter Table

The alter table is used to sets the primary and foreign keys in each table. The alter table is also used to clean up the column names in the product_dataset table and delete the index column.



Generate ERD

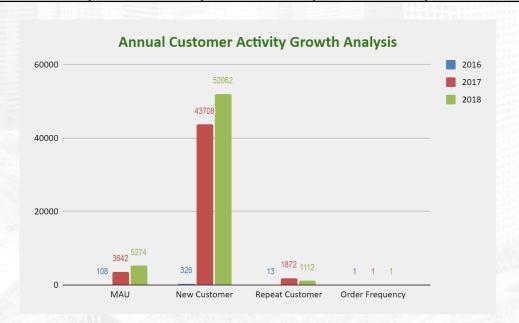
With the primary & foreign keys found, the **ERD in pgAdmin can be generated immediately** (as shown on the left) by clicking "Generate ERD" when right-clicking on the database in which the tables are stored.



Annual Customer
Activity Growth
Analysis



Year	MAU	New Customer	Repeat Customer	Order Frequency
2016	108	326	13	1
2017	3642	43708	1872	1
2018	5274	52062	1112	1



Annual Customer Activity Growth Analysis

Annual Customer Activity Growth Analysis



From the table and graph above, we know that:

- The average Monthly Active User (MAU) has increased every year. However, there was a 50% reduction in the increase obtained.
- Total new customers have also increased every year. In line with MAU, new customers also experienced a rapid increase in 2017.
- There was a fluctuating increase in the repeat orders made by customers. The
 increase fluctuated every year. We saw that the number of customers making
 repeat orders increased in 2017 and then decreased in 2018.
- The frequency of orders needs to be a concern because it has stayed the same for three years. This happens because the number of customers who repeat orders is still deficient.
- Therefore, the marketing team needs to pay more attention to increasing the repeat orders, the number of repeat orders, and the frequency of customer orders.



Annual Product
Category Quality
Analysis

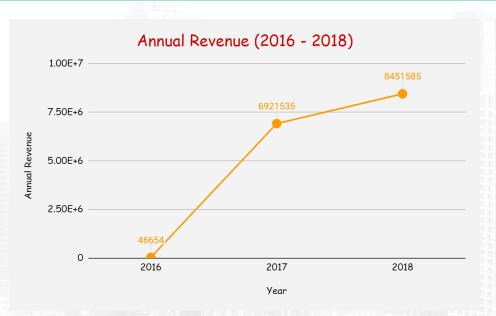


Annual Product Category Quality Analysis

Year	Yearly Revenue	Annual Cancel Order	Top Category Revenue	Top Category Orders Cancel
2016	46654	26	Furniture Decor	Toys
2017	6921535	265	Bed Bath Table	Sports Leisure
2018	8451585	334	Health Beauty	Health Beauty

Annual Product Category Quality Analysis







Annual revenue & annual cancel order mengalami kenaikan setiap tahunnya. Kenaikan yang pesat terjadi pada tahun kedua (2017).

Annual Product Category Quality Analysis





2018 became a concern because Health Beauty products emerged as the products with the most significant revenue and the products with the highest cancel order rates.



Analysis of Annual Payment Type Usage

Analysis of Annual Payment Type Usage



Payment Type	2016	2017	2018
Boleto	63	9508	10213
Credit Card	258	34568	41969
Debit Card	2	422	1105
Voucher	23	3027	2725

There are four types of payment that customers can choose when shopping at this e-commerce:

- Credit card
- Debit Cards
- Vouchers
- Boleto. This type allows customers to shop in e-commerce without opening a credit or debit card.



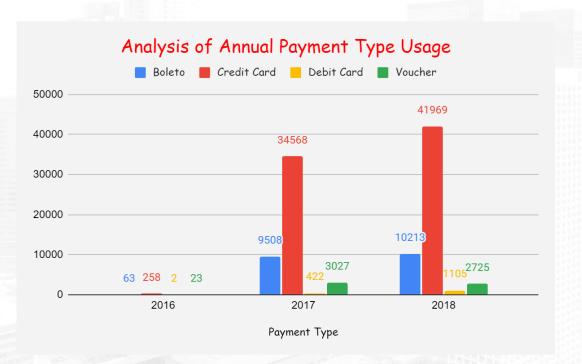
Boleto

- When the customer chooses this type of payment, the seller will issue a Boleto Voucher, which we can pay via internet banking, ATM, or teller.
- It usually has a higher cancel rate because it's not processed automatically like a credit card.
- Has a lower transaction value.



Analysis of Annual Payment Type Usage





- Payment with a Credit
 Card is the most used
 type of payment every year.
- The use of the Credit
 Card payment type
 increased rapidly in 2017
 in line with the rapid
 increase in e-commerce
 customers.



Analysis of Annual Payment Type Usage

- The use of Boleto, Credit Card, and Debit Card payment types has increased every year.
- There was a fluctuating increase up and down in the type of Voucher payment. Voucher usage increased in 2017, then decreased in the following year (2018)