

Analyzing eCommerce Business Performance with SQL



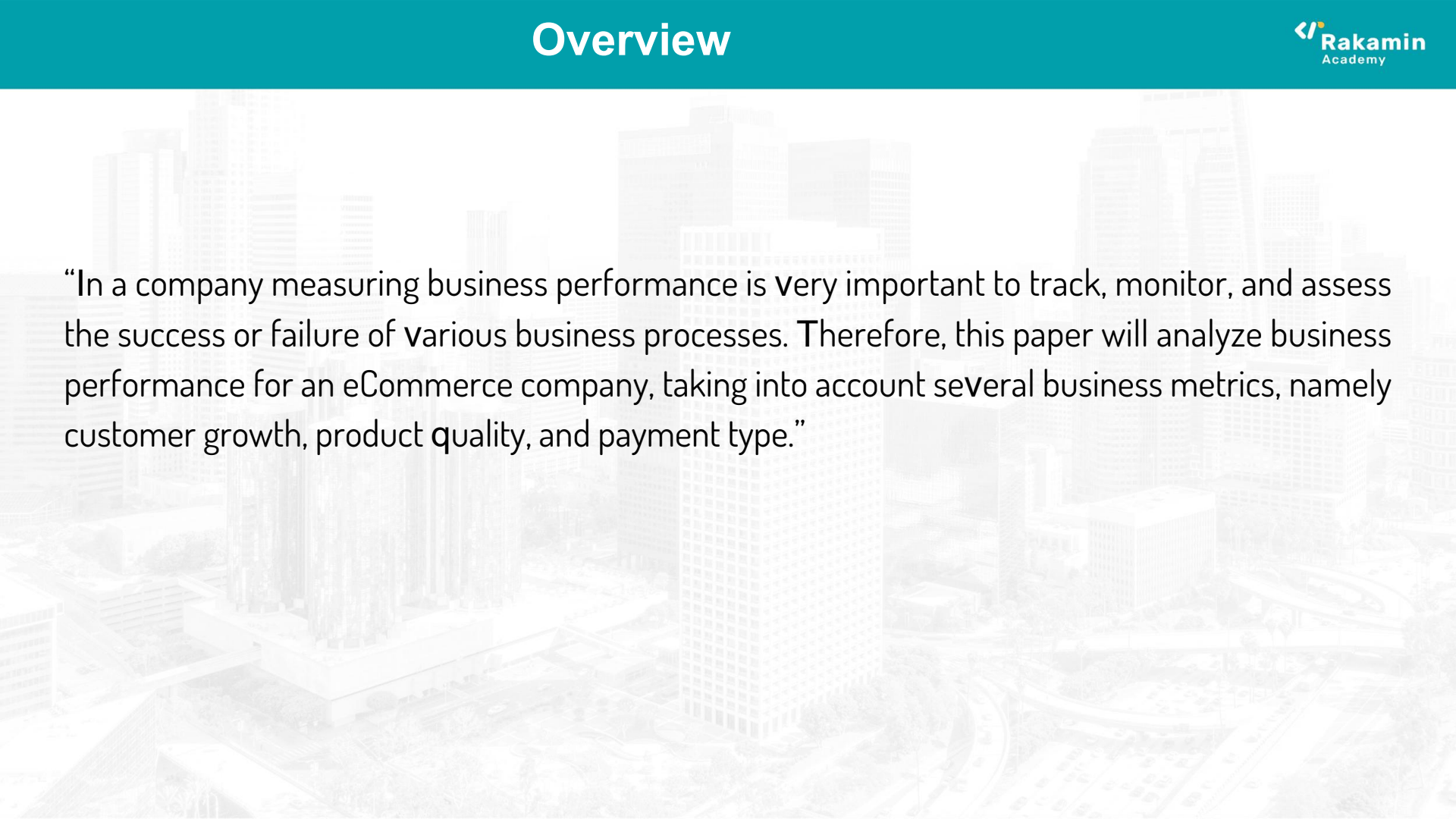
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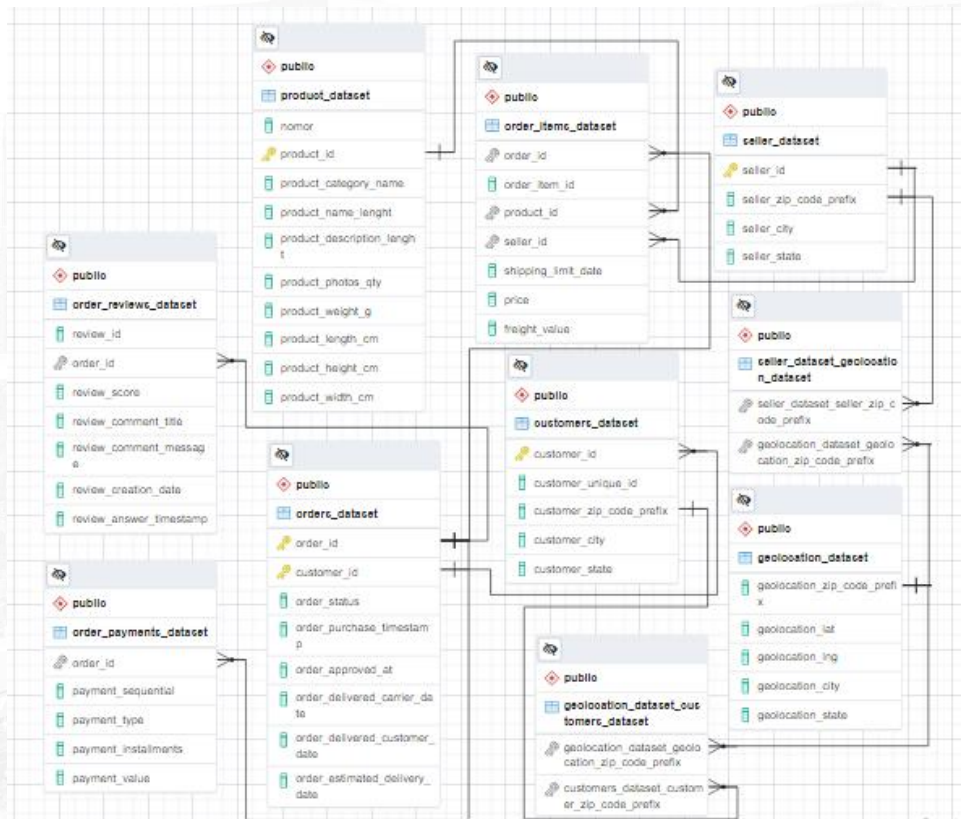
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“Zulhilmi umarta is an agribusiness graduate. He moved on to become a data analyst. He Pursuing experience and knowledge in the data field through bootcamps, courses, and project. He is also very interested in a career in the world of data.”

A faded, light grey background image of a city skyline with various skyscrapers and buildings.

“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 eCommerce company, taking into account several business metrics, namely customer growth, product quality, and payment type.”

Entity Relationship Diagram



Steps to Create an ERD

1

Doing data preparation, where the data before being imported into postgresql that must be done first is to create tables and columns based on the data we will use. Then the data is imported.

2

After the data has been imported, click the tools in the postgresql menu bar then select ERD Tool open the page on the worksheet to create the ERD.

3

Then drag the table that has been created and import the data into the ERD worksheet.

4

After all the tables are dragged, they are connected by lines based on the same column between tables.

Annual Customer Activity Growth Analysis

	years double precision 	mau bigint 	total_new_customers bigint 	total_customer_repeat_order bigint 	rata_rata_order numeric 
1	2016	109	326	3	1.01
2	2017	3758	43713	1256	1.03
3	2018	5401	52749	1167	1.02

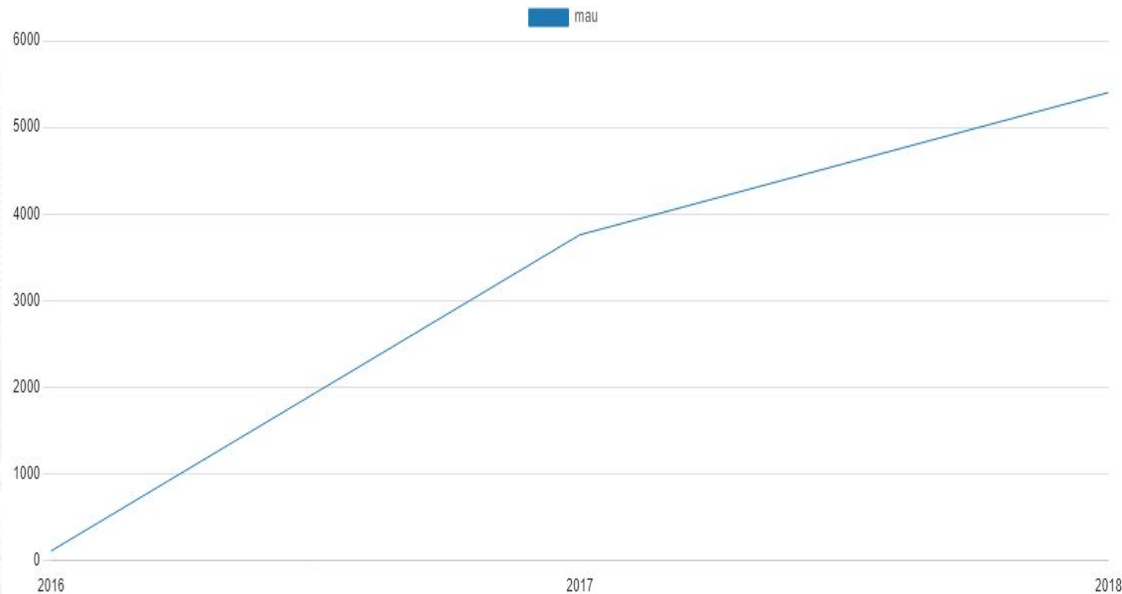
The full query can be seen [here](#)

Annual Customer Activity Growth Analysis

Analysis :

From the table results, the data started from 2016 in September, so the data from 2016 to 2017 produced a much different figure. The results of the analysis show that monthly customer activity from 2017 to 2018 has increased.

	years double precision 🔒	mau bigint 🔒
1	2016	109
2	2017	3758
3	2018	5401

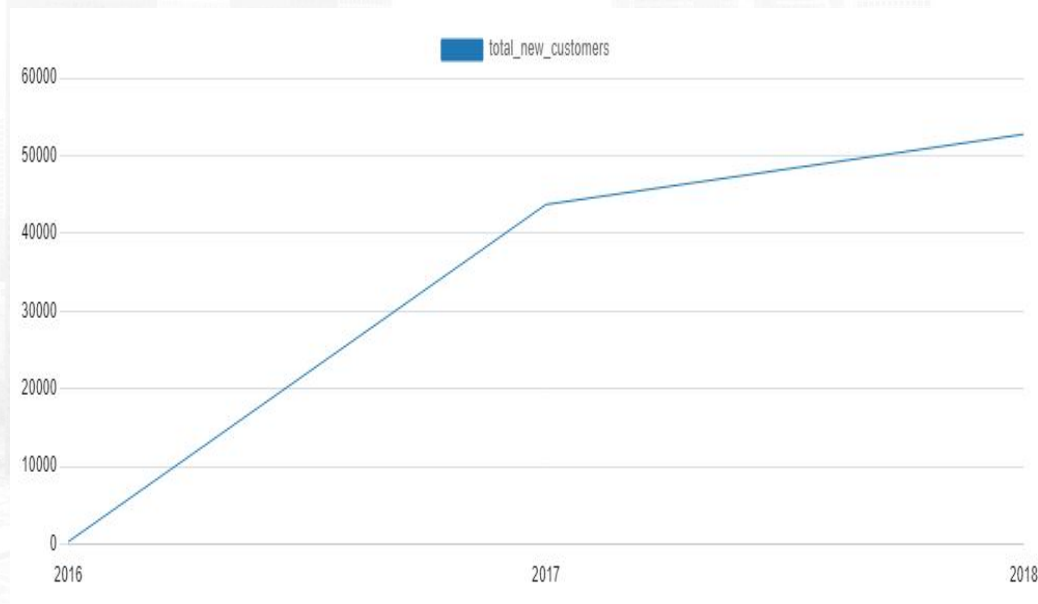


Annual Customer Activity Growth Analysis

Analysis :

From the results of the available data, the data starts from 2016 in September, so there is a difference in data from 2016 to 2017. The results of the analysis show that the growth of new customers from 2017 to 2018 has increased.

	years double precision 🔒	total_new_customers bigint 🔒
1	2016	326
2	2017	43713
3	2018	52749

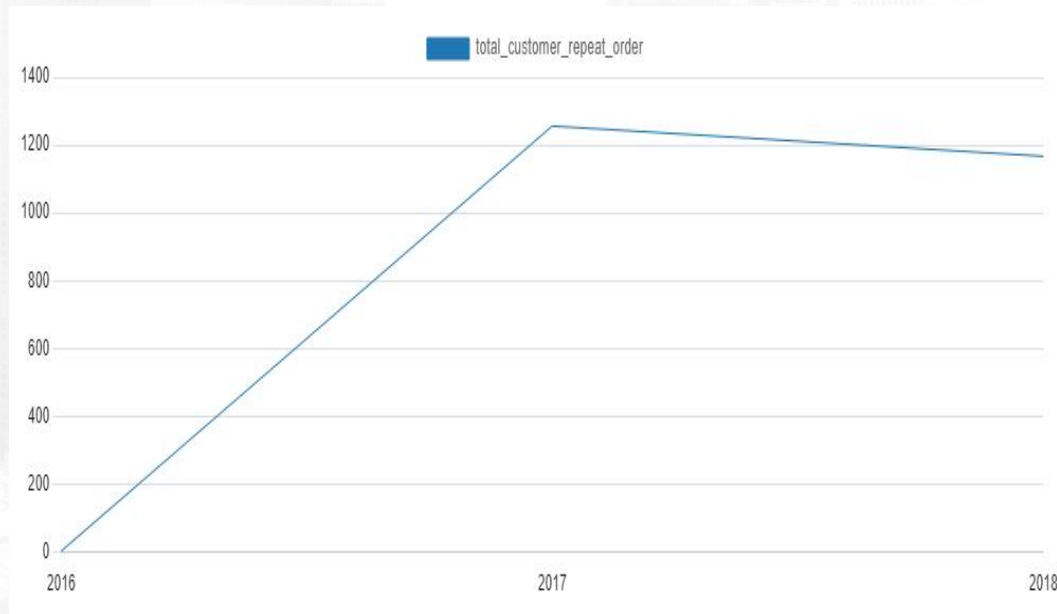


Annual Customer Activity Growth Analysis

Analysis :

From the results of the available data, the data starts from 2016 in September, so there is a difference in data from 2016 to 2017. The results of the analysis show that customers who repeat orders from 2017 to 2018 have decreased.

	years double precision 🔒	total_customer_repeat_order bigint 🔒
1	2016	3
2	2017	1256
3	2018	1167

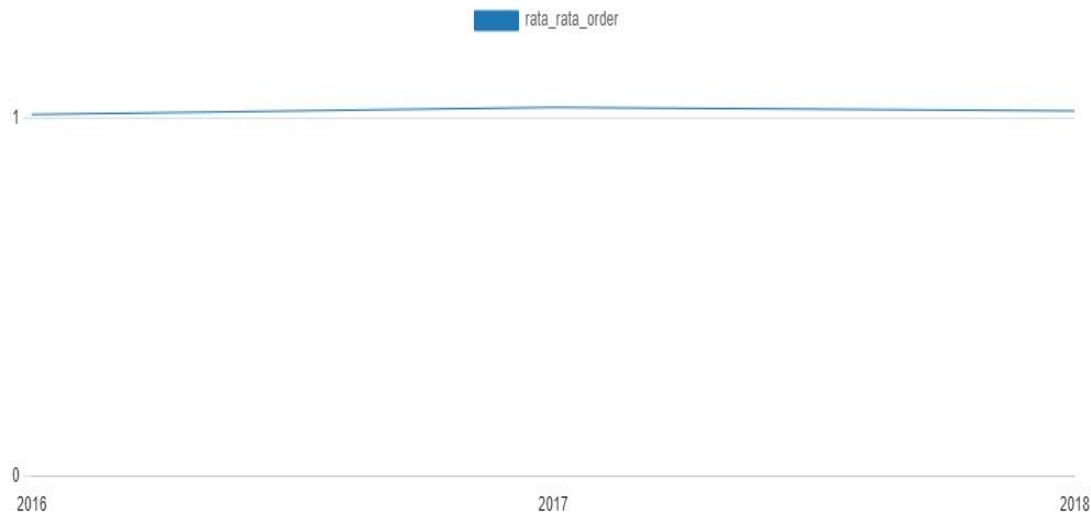


Annual Customer Activity Growth Analysis

Analysis :

The results of the analysis show that the average customer order from year to year is 1 order, so there is no increase or decrease.

	years double precision 	rata_rata_order numeric 
1	2016	1.01
2	2017	1.03
3	2018	1.02



Annual Product Category Quality Analysis

	years double precision 🔒	top_product character varying 🔒	revenue_top_product numeric 🔒	revenue_per_year numeric 🔒	most_product_cancelled character varying 🔒	num_cancelled bigint 🔒	total_cancelled_per_year bigint 🔒
1	2016	furniture_decor	6899.35	46653.74	toys	3	26
2	2017	bed_bath_table	580949.2	6921535.24	sports_leisure	25	265
3	2018	health_beauty	866810.34	8451584.77	health_beauty	27	334

Annual Product Category Quality Analysis

Top Product

Revenue

Analysis :

From this analysis, it can be seen that each year has a different top product and the following is the revenue of each product. From the revenue every year for the whole, we can see an increase in revenue.

2016



Furniture Decor

\$ 6899

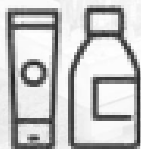
2017



Bed Bath Table

\$ 580.949

2018



Health Beauty

\$ 866.810

Revenue

2016

\$ 46.653

2017

\$ 6.921.535

2018

\$ 8.451.584

Annual Product Category Quality Analysis

Most Product

Canceled

Analysis :

From this analysis, it can be seen that each year has a different cancel order product and. From each year the overall cancel order we can see an increase.

2016



Toys

3 Unit

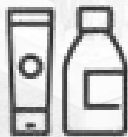
2017



Sport Leisure

25 Unit

2018



Health Beauty

27 Unit

Canceled

2016

26 Unit





2017

265 Unit

2018

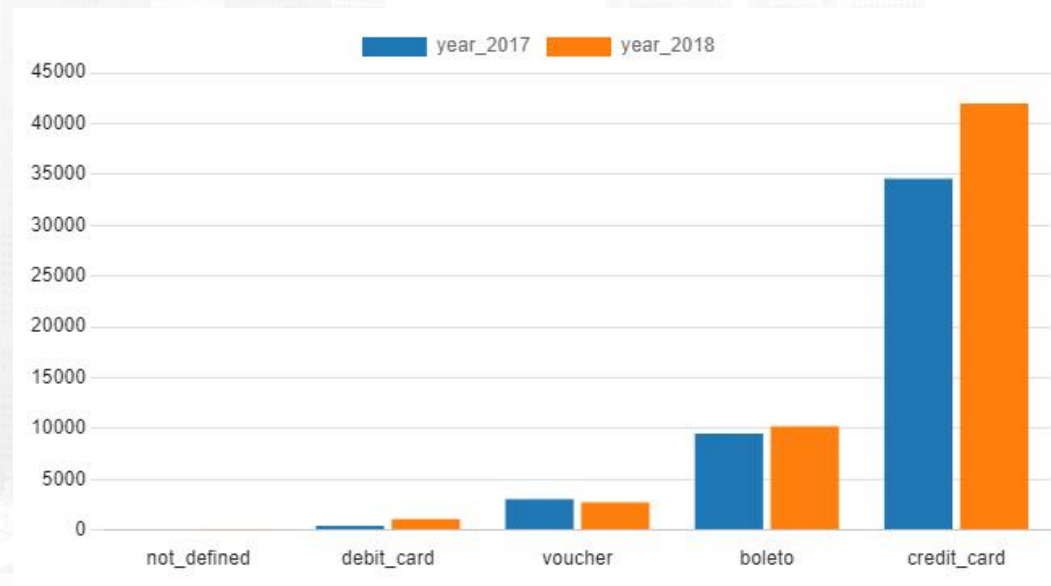
334 Unit

Analysis of Annual Payment Type Usage

	payment_type character varying 	year_2016 numeric 	year_2017 numeric 	year_2018 numeric 
1	not_defined	0	0	3
2	debit_card	2	422	1105
3	voucher	23	3027	2725
4	boleto	63	9508	10213
5	credit_card	258	34568	41969

Analysis :

As a result of the analysis, it can be seen that the most favorite payment is a credit card, and every year it increases. Then the use of vouchers has decreased. In debit cards, a significant increase is seen. maybe.



A faded, grayscale background image of a city skyline with various skyscrapers and buildings.

Thanks You