

```
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     r = " Database provider
    LectsQL1 = " Select id,
    erysQL1 = " where id h
   uerySQL2 = " group by
   Query = SelectSQL1 & Q
  e Query; Commit Trans
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INTRODUCTION

WHAT ARE ELECTRIC VEHICLES? WHY SQL?

Electric Vehicles (EVs) are eco-friendly, powered by electricity, and emit zero tailpipe emissions. They use electric motors and batteries for propulsion, reducing pollution. Available in various forms like cars and scooters, EVs have gained popularity for their environmental benefits. and energy efficiency.

Vehicle companies like Zoom Electric (ZE) rely on Data analysts using languages like SQL to make data-driven decisions, optimizing sales, customer insights, and marketing.



PROJECT DESCRIPTION

WHAT ARE THE TARGETS?
WHAT'S MY ROLE?

In this project, I am working as a Data Analyst for Zoom Electric (ZE), a unique electric vehicle company known for regularly introducing new scooter models. Our project focuses on analyzing electric vehicle sales data. We aim to uncover valuable insights into our sales performance, customer behavior, and the effectiveness of our marketing efforts. By understanding these key aspects, we'll be better equipped to make informed decisions and enhance our business strategies for future growth.



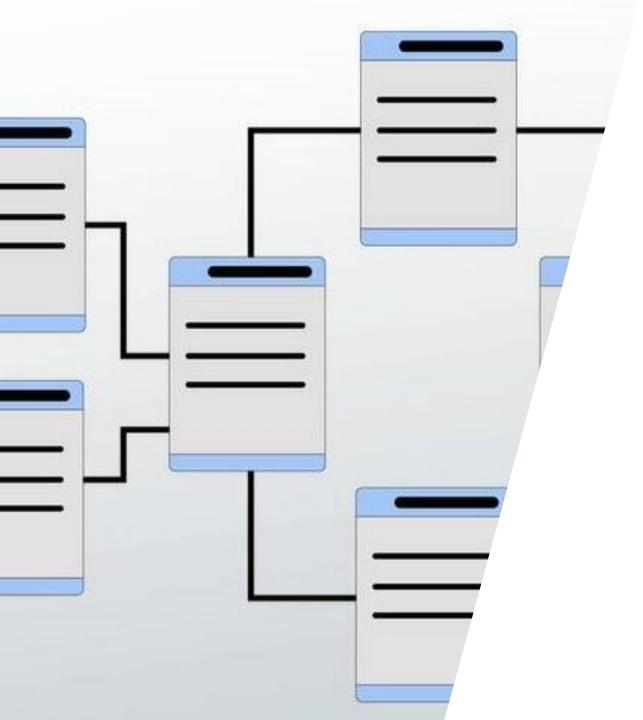
PROJECT OBJECTIVE

WHAT DO I HAVE?
WHAT DOES MY MANAGER WANT?

I was provided with four tables, email_subject, emails, products, and sales.

- email_subject: Contains datewise and activity-wise details on customer interaction with advertisements.
- emails: contains information on email_subject and subject_id.
- > products: Contains product information.
- > sales: Contains sales data of the company.

Objective: To gain actionable insights from electric vehicle sales data for Zoom Electric.

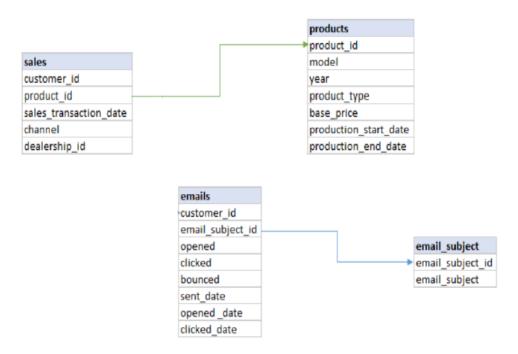


DATABASE SCHEMA

WHAT ARE THE TABLE RELATIONSHIPS?

Here is the database schema of the tables:

Schema





Key Metrics

KEY METRICS USED

WHAT ARE THE KEY METRICS?

In this project the key metrics that were used are,

- ✓ Revenue
- ✓ average revenue per model
- ✓ sales volume
- √ email open rates
- ✓ bounce rates
- ✓ click-through rates(CTR)
- ✓ customer engagement.



COMMON BUSINESS TERMS

WHAT DOES IT MEAN?

The project uses several common business terms, which are also relevant in the context of this analysis, including:

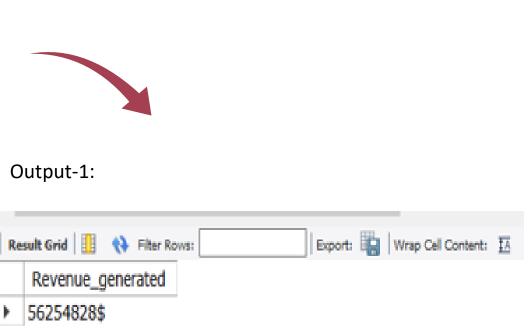
- **1. Bounce Rate:** The percentage of emails that could not be delivered to the recipient's inbox.
- **2.** Click-Through Rate (CTR): The percentage of email recipients who clicked on a link contained in an email.
- **3. Customer Engagement:** The level of interaction and participation between customers and a brand or product.
- **4. Cumulative Sales:** The total sales over a specified time period, considering previous sales.

PROBLEM-1

FIND THE TOTAL REVENUE GENERATED FROM SPRINT SCOOTER SALES IN THE YEAR 2016

Query-1:





PROBLEM-2

CALCULATE THE AVERAGE REVENUE GENERATED ON MODEL 'DELTAPLUS' THROUGH THE DEALERSHIP CHANNEL

Query-2:





Output-2:



PROBLEM-3

DETERMINE THE MONTH WITH THE HIGHEST TOTAL SALES REVENUE IN 2016.

Query-3:





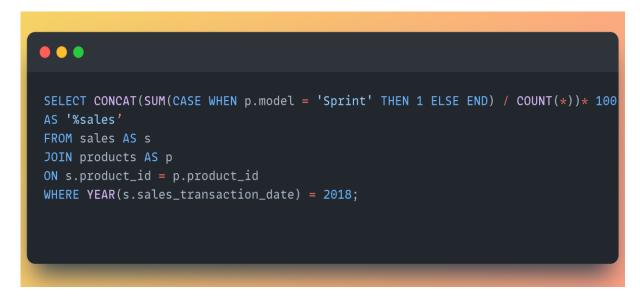
Output-3:



PROBLEM-4

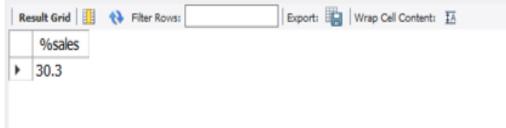
FIND THE PERCENTAGE OF SPRINT SCOOTER SALES COMPARED TO TOTAL EV SCOOTER SALES IN 2018

Query-4:





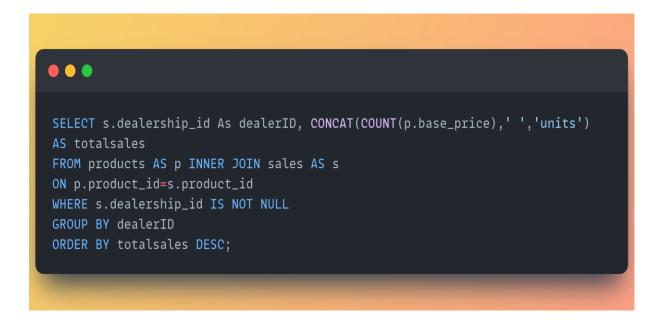
Output-4:



PROBLEM-5

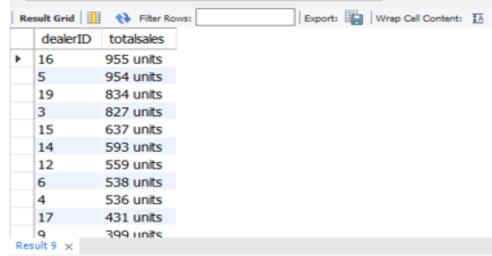
CALCULATE THE TOTAL SALES VOLUME OF SPRINT SCOOTERS FOR EACH DEALERSHIP

Query-5:





Output-5:



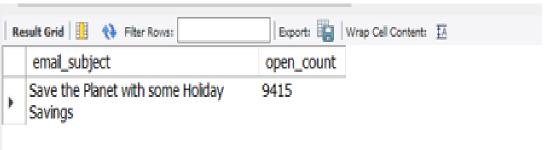
PROBLEM-6 FIND THE EMAIL SUBJECT THAT WAS OPENED THE MOST

Query-6:





Output-6:



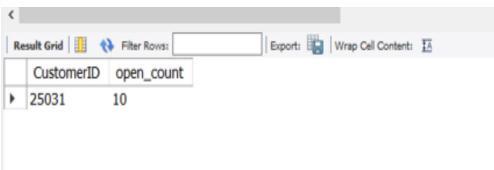
PROBLEM-7 IDENTIFY THE CUSTOMER WHO OPENED THE MOST EMAILS

Query-7:





Output-7:



PROBLEM-8

CALCULATE THE AVERAGE NUMBER OF EMAILS SENT PER CUSTOMER

Query-8:





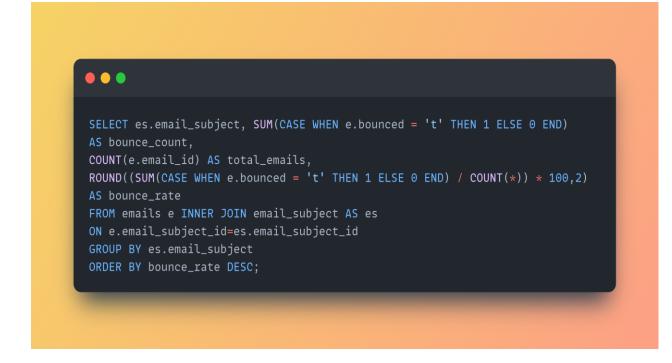
Output-8:



PROBLEM-9

CALCULATE THE BOUNCE RATE FOR EACH EMAIL SUBJECT

Query-9:





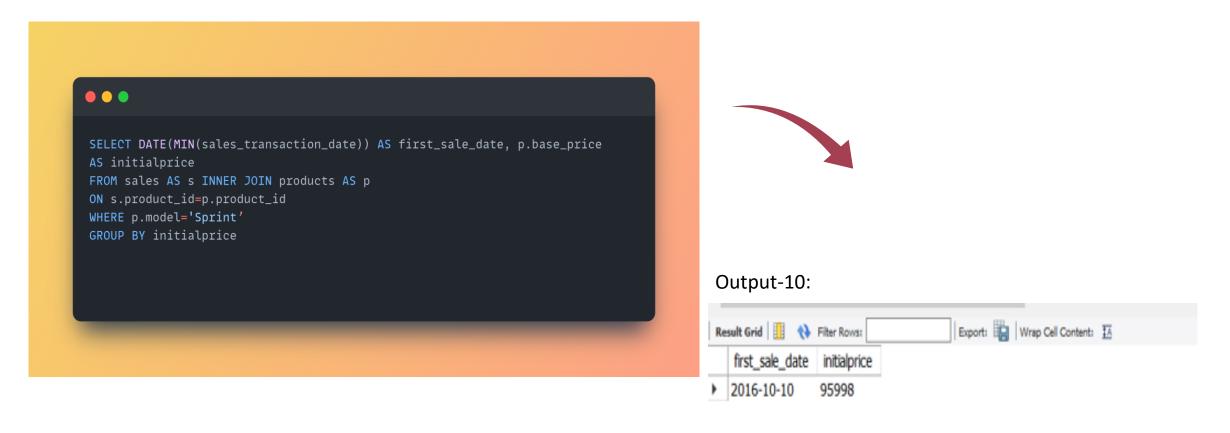
Output-9:

email_subject	bounce_count	total_emails	bounce_rate
Introducing A Limited Edition	27	4220	0.64
Cut you a deal: 20%% off on Parker	122	24193	0.50
We Really Outdid Ourselves this Year	157	36768	0.43
The 2013 FioNex Scooter is Here	66	15885	0.42
Go out with FioNex ! get 10%% off	23	5562	0.41
A New Year, And Some New EVs	190	47437	0.40
Take out your Electric Scooter for Ho	. 78	19873	0.39
Season of Savings Offer	116	30554	0.38
Green Cars , Green Friday Offer	158	41399	0.38
Sale is still on this Friday	92	25233	0.36
Sprint Un vour Ride	125	35067	0.36

PROBLEM-10

FIND THE DATE ON WHICH THE FIRST SPRINT SCOOTER WAS SOLD, WHAT WAS IT'S PRICE ON THAT TIME

Query-10:



PROBLEM-11

WHAT IS THE CUMULATIVE SALES VOLUME (IN UNITS) FOR THE FIRST 7 DAYS BETWEEN 10- 10 -2016 AND 16-10-2016?

Query-11:





Output-11:



PROBLEM-12

ON 20TH OCT, WHAT ARE THE LAST 7 DAYS' CUMULATIVE SALES OF CORPEL AUTOMOBILE (IN UNITS)?

Query-12:



PROBLEM-13

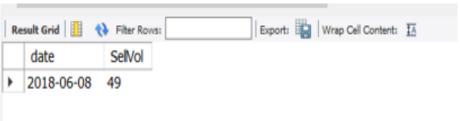
ON WHICH DATE DID THE SALES VOLUME REACH ITS HIGHEST POINT?

Query-13:





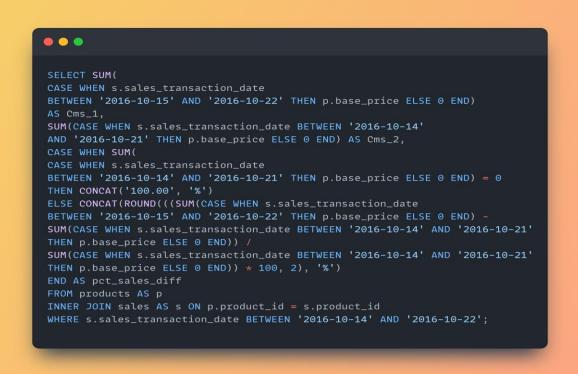
Output-13:



PROBLEM-14

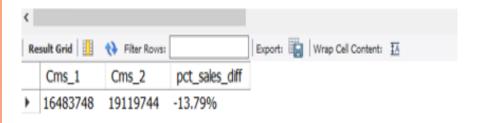
ON 22-10-2016 BY WHAT PERCENTAGE, CUMULATIVE SALES OF LAST 7 DAYS DROPPED COMPARED TO LAST 7 DAYS CUMULATIVE SALES ON 21-10-2016?

Query-14:





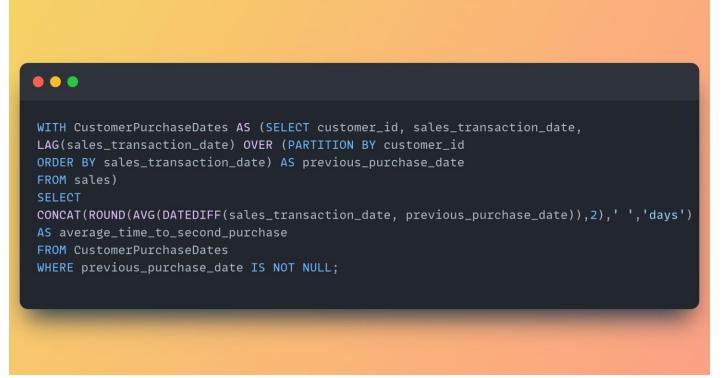
Output-14:



PROBLEM-15

CALCULATE THE AVERAGE TIME IT TAKES FOR A CUSTOMER TO MAKE A SECOND PURCHASE

Query-15:





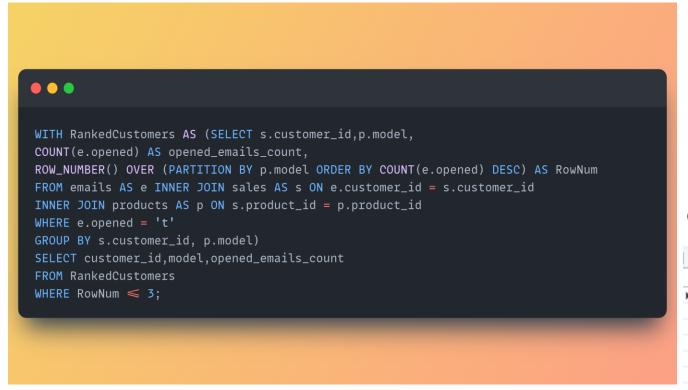
Output-15:



PROBLEM-16

FIND THE TOP 3 CUSTOMERS WITH THE HIGHEST NUMBER OF OPENED EMAILS FOR EACH PRODUCT MODEL

Query-16:





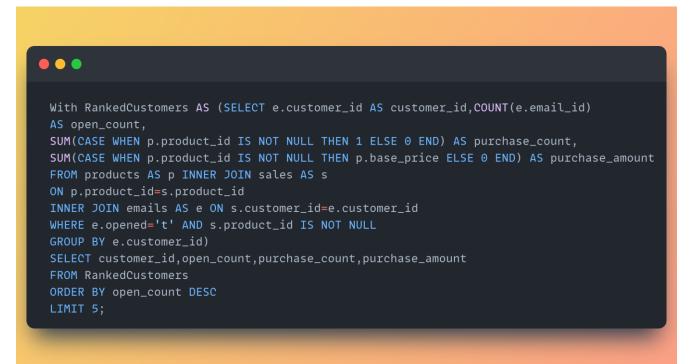
Output-16:

Re	sult Grid 🔠 Fit	er Rows:	Export: Wrap Cell Content:	ĪĀ
	customer_id	model	opened_emails_count	
١	16285	Corpel	8	
	26157	Corpel	8	
	38971	Corpel	8	
	15977	DeltaPlus	8	
	20694	DeltaPlus	8	
	22124	DeltaPlus	7	
	7747	FioNex	24	
	35372	FioNex	18	
	20152	FioNex	18	
	32627	FioNex Limited Edition	6	
	36228	FioNex Limited Edition	6	
-				

PROBLEM-17

IDENTIFY THE TOP 5 CUSTOMERS WHO OPENED THE MOST EMAILS AND ALSO MADE A PURCHASE.
INCLUDE THE NUMBER OF EMAILS OPENED AND THE TOTAL PURCHASE AMOUNT FOR EACH CUSTOMER

Query-17:





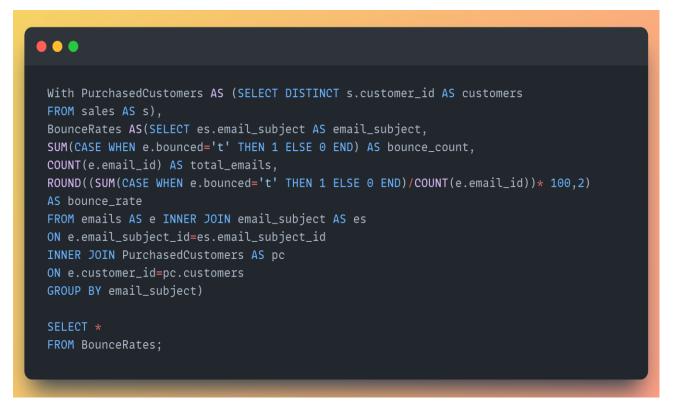
Output-17:

	customer_id	open_count	purchase_count	purchase_amount
ĸ	31702	27	27	2231946
	9870	25	25	2479950
	41575	24	24	1775952
	20694	24	24	8767968
	7747	24	24	1919952

PROBLEM-18

CALCULATE THE BOUNCE RATE FOR EACH EMAIL SUBJECT, CONSIDERING ONLY EMAILS SENT TO CUSTOMERS WHO HAVE MADE A PURCHASE.INCLUDE THE EMAIL SUBJECT AND THE BOUNCE RATE

Query-18:





Output-18:

	email_subject	bounce_count	total_emails	bounce_rate
٠	Introducing A Limited Edition	12	1767	0.68
	Go out with FioNex ! get 10%% off	14	2299	0.61
	The 2013 FioNex Scooter is Here	32	6126	0.52
	Take out your Electric Scooter for Ho	34	8052	0.42
	A Brand New Scooterand Car	39	9081	0.43
	Cut you a deal: 20%% off on Parker	47	10338	0.45
	Sale is still on this Friday	46	10975	0.42
	An Electric Car for a New Age	39	11985	0.33
	Season of Savings Offer	46	14094	0.33
	Sprint Up your Ride	58	16888	0.34
	25% off all EVs. It's a Christmas Time	60	17492	0.34
Re	sult 37 ×			

PROBLEM-19

CALCULATE THE CLICK-THROUGH RATE (CTR) FOR TOP 2 EMAIL ADVERTISEMENT SUBJECT

Query-19:





Output-19:



INSIGHTS

WHAT DID I FIND?

This entire project has yielded intriguing and valuable insights that can assist the business in tracking its progress and accelerating its growth.

- ➤ In 2016, the **Sprint Scooter** model generated approximately \$56.25 million in revenue, contributing to **30.3%** of total electric vehicle scooter sales.
- > The month of September in 2016 had the highest total sales revenue, reaching \$100.05 million.
- > The first Sprint Scooter was sold on **October 10, 2016**, at an initial price of \$95,998.
- ➤ The cumulative sales volume for the first 7 days between October 10, 2016, and October 16, 2016, was **107 units.**
- > On October 20, 2016, the cumulative sales volume for Corpel automobiles was 6 units over the last 7 days.
- > The highest sales volume date was June 8, 2018, with 49 units sold.
- > The email subject "Save the Planet with some Holiday Savings" had the highest open count, with 9,415 opens.



INSIGHTS

WHAT DID I FIND?

This entire project has yielded intriguing and valuable insights that can assist the business in tracking its progress and accelerating its growth.

- > Customer 25031 opened the most emails, with a total of 10 opens.
- > On average, customers took approximately **418.30 days** to make their second purchase.
- > The top 3 customers with the **highest number of opened emails** for each product model were identified.
- > The top 5 customers who **opened the most emails and also made a purchase** were listed, along with their purchase counts and amounts.
- > Bounce rates for each email subject were calculated, considering only emails sent to customers who made a purchase.
- > The click-through rates (CTR) for the top 2 email advertisement subjects were calculated, with "25% off all EVs. It's a Christmas Time" having the highest CTR at 2.39%.



CONCLUSIONS

SO WHAT'S NEXT?

To engage in more successful business, the company should:

- ➤ Leverage Product Success: Invest in the Sprint Scooter line and consider similar premium launches.
- ➤ Capitalizing on Seasonality: Plan marketing campaigns around peak sales months, like September.
- ➤ **Promotions Strategy:** Continue with engaging email subject lines for better customer engagement.
- ➤ Customer Retention: Work on strategies to reduce the time between first and second purchases.
- ➤ Data-Driven Marketing: Focus on personalized marketing efforts for top customers and product models.
- > CTR Optimization: Analyze and replicate successful email ad campaigns for higher CTR.

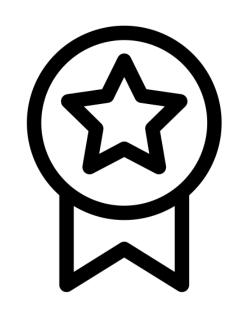


ACHIEVEMENTS

WHAT DID I LEARN?

This project has provided a platform for significant achievements and personal growth, offering valuable insights and learnings,

- ➤ **Data-Driven Expertise:** Developed strong data analysis skills, enabling me to extract valuable insights and make informed decisions.
- > Strategic Acumen: Enhanced strategic thinking, contributing to project success and business growth.
- ➤ Marketing Proficiency: Gained expertise in marketing strategies, including campaign timing and customer engagement.
- > Pricing Strategies: Acquired knowledge of how pricing impacts product performance in the market.
- > Customer Focus: Embraced a customer-centric approach, improving loyalty and satisfaction.
- ➤ **Continuous Improvement:** Embraced the concept of continuous improvement, refining strategies for better results.
- Adaptability: Learned to adapt strategies based on data insights and changing market conditions.
- > Success Replication: Recognized the effectiveness of replicating successful campaigns for consistent growth.



THANK YOU