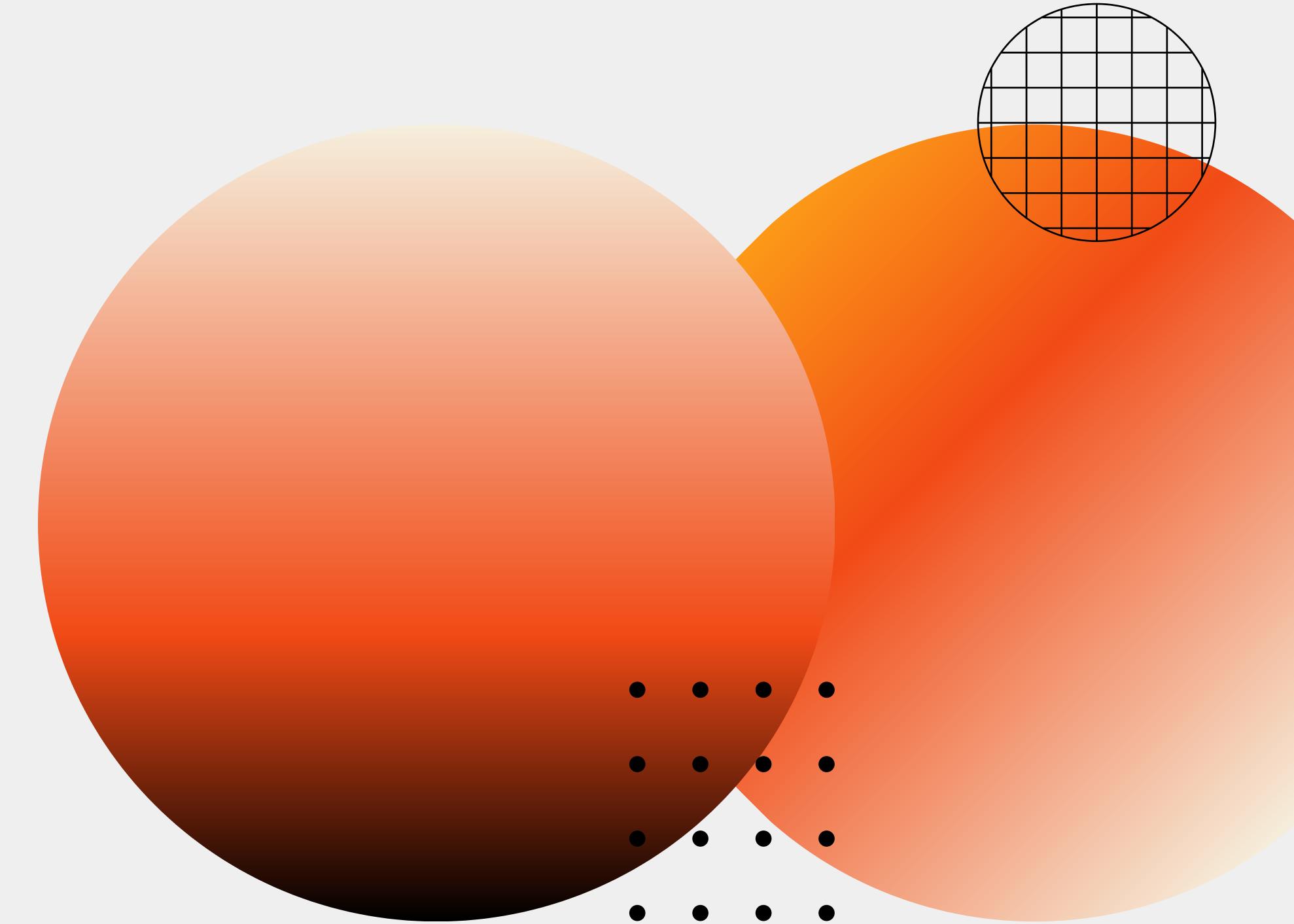




SALES ANALYSIS

Using SQL

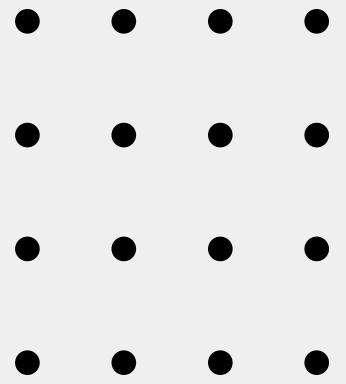


PRESENTED BY : DISHA SINDHI

INTRODUCTION

E-commerce

Amazon started as an online marketplace for books in 1994 and has since expanded to sell a wide range of products including electronics, apparel, furniture, food, toys, and more. Customers can shop for millions of items and have them delivered to their homes or businesses.



★ WHAT IS SQL ★

SQL (Structured Query Language) is a standard programming language used for managing and manipulating relational databases. It enables users to perform various operations such as querying, updating, inserting, and deleting data stored in a database. SQL is designed for interacting with databases organized into tables, with rows representing records and columns representing data fields.

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- • •
- • •

PROBLEM STATEMENT

You are working at Amazon, a leading e-commerce platform. The management has tasked you with analyzing sales data by performing different queries in sql.



QUESTIONS:-

Q1. LIST ALL PRODUCTS WITH A DISCOUNTED PRICE BELOW ₹500.

Q2. FIND PRODUCTS WITH A DISCOUNT PERCENTAGE OF 50% OR MORE.

Q3. RETRIEVE ALL PRODUCTS WHERE THE NAME CONTAINS THE WORD "CABLE."

Q4. DISPLAY THE DIFFERENCE BETWEEN THE AVERAGE OF THE ACTUAL PRICE AND THE DISCOUNTED PRICE FOR EACH PRODUCT.

Q5. QUERY REVIEWS THAT MENTION "FAST CHARGING" IN THEIR CONTENT.

Q6.IDENTIFY PRODUCTS WITH A DISCOUNT PERCENTAGE BETWEEN 20% AND 40%.

Q7.FIND PRODUCTS THAT HAVE AN ACTUAL PRICE ABOVE ₹1,000 AND ARE RATED 4 STARS OR ABOVE.

Q8.FIND PRODUCTS WHERE THE DISCOUNTED PRICE ENDS WITH A 9

Q9.DISPLAY REVIEW CONTENTS THAT CONTAINS WORDS LIKE WORST, WASTE, POOR, OR NOT GOOD.

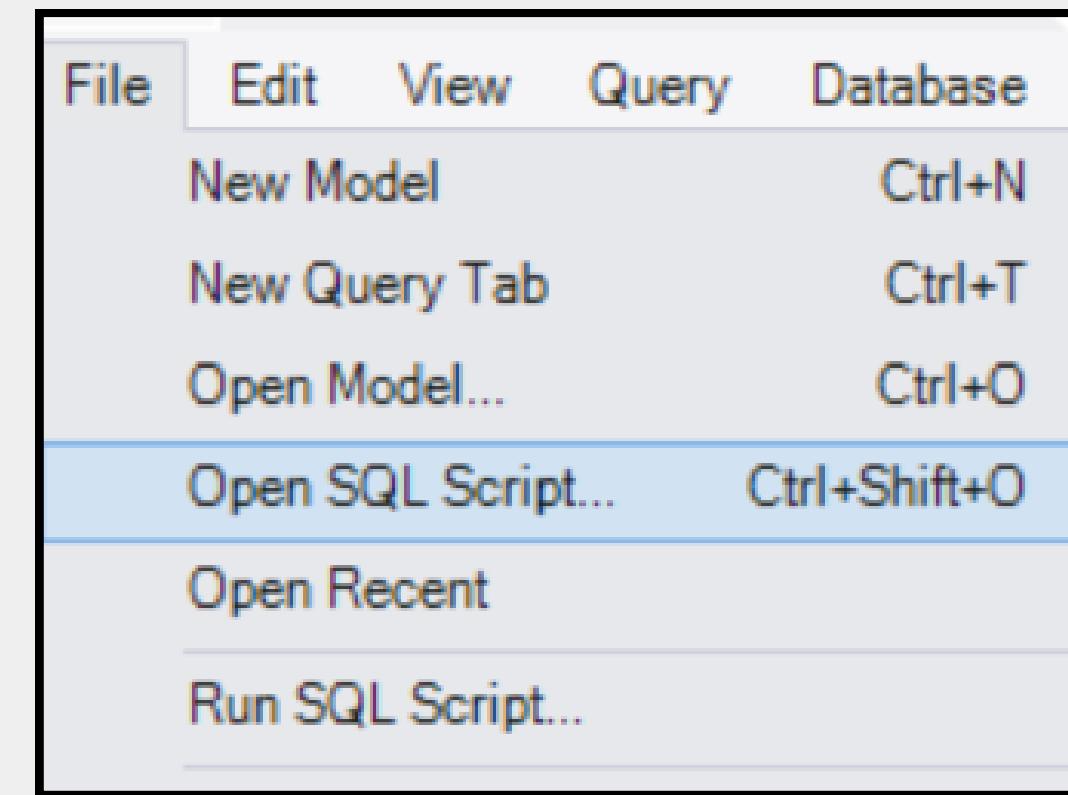
Q10.LIST ALL PRODUCTS WHERE THE CATEGORY INCLUDES "ACCESSORIES."

GET STARTED WITH THE PROJECT

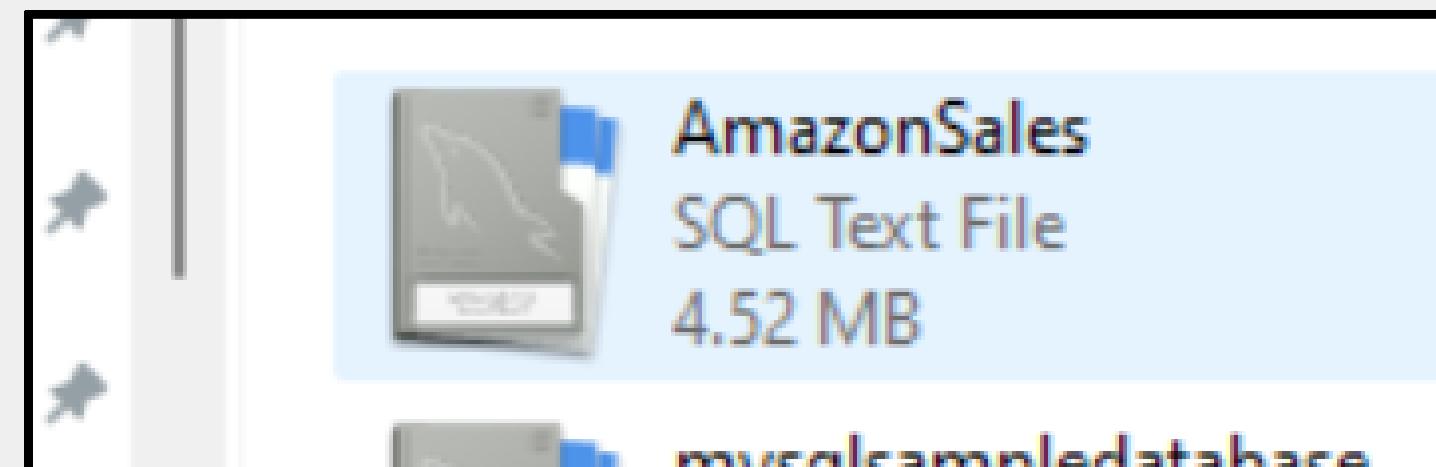
```
create database Amazon;  
use Amazon;
```

CREATE A NEW DATABASE
NAMED `AMAZON` AND THEN USE IT BY
EXECUTING THE COMMAND `USE AMAZON`

```
`user_name` VARCHAR(1024),  
`review_id` VARCHAR(1024),  
`review_title` VARCHAR(1024),  
`review_content` Text,  
`img_link` VARCHAR(1024),  
`product_link` VARCHAR(1024)  
;  
  
INSERT INTO `mytable` (`product_id`, `product_name`, `category`  
VALUES  
'B07JW9H4J1', 'Wayona Nylon Braided USB to Lightning Fast C  
'B098NS6PVG', 'Ambrane Unbreakable 60W / 3A Fast Charging 1  
'B006MSW5CT' 'Source Fast Phone Charging Cable & Data Sync
```



IMPORT THE DATA BY CLICKING ON FILE AND
SELECTCTING OPEN SQL SCRIPT UPLOAD
YOUR DATASET FILE



AFTER THE DATASET IS UPLOADED, YOU'LL
HAVE ACCESS TO THE AMAZON DATA,
ALLOWING YOU TO START YOUR PROJECT

Q1. LIST ALL PRODUCTS WITH A DISCOUNTED PRICE BELOW ₹500.

SELECT

product_name, discounted_price

FROM

mytable

WHERE

discounted_price < 500;



PURPOSE

SELECTING THE PRODUCT_NAME AND DISCOUNTED_PRICE COLUMNS FROM A TABLE NAMED MYTABLE. IT FILTERS THE RESULTS TO ONLY INCLUDE ROWS WHERE THE DISCOUNTED_PRICE IS LESS THAN 500.

product_name	discounted_price
Wayona Nylon Braided USB to Lightning Fast...	399
Ambrane Unbreakable 60W / 3A Fast Chargi...	199
Source Fast Phone Charging Cable & Data S...	199
boAt Deuce USB 3.0 2 in 1 Type-C & Micro U...	329

Q2.FIND PRODUCTS WITH A DISCOUNT PERCENTAGE OF 50% OR MORE.



PURPOSE

SELECT
product_id, product_name, discount_percentage
FROM
mytable
WHERE
discount_percentage >= 0.50;

SELECTS THE PRODUCT_ID, PRODUCT_NAME, AND DISCOUNT_PERCENTAGE COLUMNS FROM THE TABLE NAMED MYTABLE. IT FILTERS THE RESULTS TO ONLY INCLUDE ROWS WHERE THE DISCOUNT_PERCENTAGE IS GREATER THAN OR EQUAL TO 0.50.

product_id	product_name	discount_percentage
B07JW9H4J1	Wayona Nylon Braided USB to Lightning Fast...	0.64
B096MSW6CT	Source Fast Phone Charging Cable & Data S...	0.9
B08HDJ86NZ	boAt Deuce USB 300 2 in 1 Type-C & Micro U...	0.53
B08CF3B7N1	Portronics Konnect L 1.2M Fast Charging 3A ...	0.61
B08Y1TFSP6	pTron Solero TB301 3A Type-C Data and Fa...	0.85
B08WRWPM22	boAt Micro USB 55 Tangle-free, Sturdy Micro...	0.65

Q3.RETRIEVE ALL PRODUCTS WHERE THE NAME CONTAINS THE WORD "CABLE."

SELECT

product_id, product_name

FROM

mytable

WHERE

product_name LIKE '%Cable%';



PURPOSE

THIS QUERY RETRIEVES SPECIFIC DATA FROM THE MYTABLE TABLE.

IT SELECTS TWO COLUMNS: PRODUCT_ID AND

PRODUCT_NAME. THE WHERE

CLAUSE FILTERS THE RESULTS TO ONLY INCLUDE ROWS WHERE THE PRODUCT_NAME CONTAINS THE

WORD "CABLE"

product_id	product_name
B07JW9H4J1	Wayona Nylon Braided USB to Lightning Fast...
B098NS6PVG	Ambrane Unbreakable 60W / 3A Fast Chargi...
B096MSW6CT	Sounce Fast Phone Charging Cable & Data S...
B08HDJ86NZ	boAt Deuce USB 300 2 in 1 Type-C & Micro U...

Q4.DISPLAY THE DIFFERENCE BETWEEN THE AVERAGE OF THE ACTUAL PRICE AND THE DISCOUNTED PRICE FOR EACH PRODUCT.

SELECT

product_name, AVG(actual_price) - AVG(discounted_price)

FROM

mytable

GROUP BY product_name;

product_name	AVG(actual_price) - AVG(discounted_price)
Wayona Nylon Braided USB to Lightning Fast...	700
Ambrane Unbreakable 60W / 3A Fast Chargi...	150
Sounce Fast Phone Charging Cable & Data S...	1100
boAt Deuce USB 300 2 in 1 Type-C & Micro U...	370
Portronics Konnect L 1.2M Fast Charging 3A ...	245
pTron Solero TB301 3A Type-C Data and Fa...	851



PURPOSE

THE QUERY RETURNS A LIST OF PRODUCT NAMES ALONG WITH THE DIFFERENCE BETWEEN THEIR AVERAGE ACTUAL PRICE AND AVERAGE DISCOUNTED PRICE. THIS CAN BE USED TO UNDERSTAND HOW MUCH DISCOUNT, ON AVERAGE, IS BEING APPLIED PER PRODUCT.

Q5.QUERY REVIEWS THAT MENTION "FAST CHARGING" IN THEIR CONTENT.

```
SELECT  
    review_content  
FROM  
    mytable  
WHERE  
    review_content LIKE '%fast charging%';
```

review_content
I ordered this cable to connect my phone to An...
Good product,long wire,Charges good,Nice,I bo...
I ordered this cable to connect my phone to An...
The cable is efficient in fast charging but in quic...
Good product,long wire,Charges good,Nice,I bo...
It's a great cable, it charges my phone quickly and...



PURPOSE
THE QUERY RETURNS A LIST OF REVIEWS THAT SPECIFICALLY MENTION "FAST CHARGING". THIS CAN BE USEFUL FOR ANALYZING CUSTOMER FEEDBACK RELATED TO PRODUCTS WITH FAST-CHARGING CAPABILITIES.

Q6.IDENTIFY PRODUCTS WITH A DISCOUNT PERCENTAGE BETWEEN 20% AND 40%.



PURPOSE

SELECTING DATA FROM A TABLE NAMED MYTABLE. SPECIFICALLY, IT RETRIEVES THE PRODUCT_ID, PRODUCT_NAME, AND DISCOUNT_PERCENTAGE

COLUMNS FOR ROWS WHERE THE DISCOUNT_PERCENTAGE FALLS BETWEEN 0.20 (20%) AND 0.40 (40%).

product_id	product_name	discount_percentage
B08DDRGWTJ	MI Usb Type-C Cable Smartphone (Black)	0.23
B082LZGK39	Ambrane Unbreakable 60W / 3A Fast Chargi...	0.33
B082LSVT4B	Ambrane Unbreakable 60W / 3A Fast Chargi...	0.38
B08DPLCM6T	LG 80 cm (32 inches) HD Ready Smart LED T...	0.39
B08B42LWKN	OnePlus 80 cm (32 inches) Y Series HD Read...	0.25
B094JNXNPV	Ambrane Unbreakable 3 in 1 Fast Charging B...	0.25
B0B3MMYHYW	OnePlus 126 cm (50 inches) Y Series 4K Ultra...	0.28
B07MPCWCL7	TPLink Nano Router with Ethernet Port	0.29

Q7.FIND PRODUCTS THAT HAVE AN ACTUAL PRICE ABOVE ₹1,000 AND ARE RATED 4 STARS OR ABOVE.



PURPOSE

```
SELECT
    product_id, product_name, actual_price, rating
FROM
    mytable
WHERE
    actual_price > 1000 AND rating >= 4;
```

THE SQL QUERY IN THE IMAGE IS SELECTING DATA FROM A TABLE CALLED MYTABLE. IT RETRIEVES THE PRODUCT_ID, PRODUCT_NAME, ACTUAL_PRICE, AND RATING COLUMNS FOR ROWS WHERE: THE ACTUAL_PRICE IS GREATER THAN 1000. THE RATING IS GREATER THAN OR EQUAL TO 4.

THE PURPOSE OF THIS QUERY IS TO FIND PRODUCTS THAT ARE PRICED ABOVE 1000 AND HAVE A RATING OF 4 OR HIGHER.

product_id	product_name	actual_price	rating
B07JW9H4J1	Wayona Nylon Braided USB to Lightning Fast...	1099	4.2
B0B6F7LX4C	MI 80 cm (32 inches) 5A Series HD Ready S...	24999	4.2
B08DPLCM6T	LG 80 cm (32 inches) HD Ready Smart LED T...	21990	4.3
B09C6HXFC1	Duracell USB Lightning Apple Certified (Mfi) B...	1799	4.5
B09F6S8BT6	Samsung 80 cm (32 Inches) Wondertainment...	22900	4.3
B0B1YVC12Y	Acer 80 cm (32 inches) I Series HD Ready A...	19990	4.3

Q8.FIND PRODUCTS WHERE THE DISCOUNTED PRICE ENDS WITH A 9

```
SELECT
    product_id, product_name, discounted_price
FROM
    mytable
WHERE
    discounted_price LIKE '%9';
```



PURPOSE

THE SQL QUERY IS USED TO RETRIEVE THE PRODUCT_ID, PRODUCT_NAME, AND DISCOUNTED_PRICE FROM THE TABLE MYTABLE WHERE THE DISCOUNTED_PRICE ENDS WITH THE DIGIT "9." THE CONDITION LIKE '%9' ENSURES THAT ONLY THOSE RECORDS WHERE THE LAST DIGIT OF DISCOUNTED_PRICE IS "9" ARE SELECTED.

product_id	product_name	discounted_price
B07JW9H4J1	Wayona Nylon Braided USB to Lightning Fast...	399
B098NS6PVG	Ambrane Unbreakable 60W / 3A Fast Chargi...	199
B096MSW6CT	Source Fast Phone Charging Cable & Data S...	199
B08HDJ86NZ	boAt Deuce USB 300 2 in 1 Type-C & Micro U...	329
B08Y1TFSP6	pTron Solero TB301 3A Type-C Data and Fa...	149
B08DDRGWTJ	MI Usb Type-C Cable Smartphone (Black)	229
B009TEVQELL	TD Link USB WiFi Adapter for PC/Mac WN725	499

Q9.DISPLAY REVIEW CONTENTS THAT CONTAINS WORDS LIKE **WORST**, **WASTE**, **POOR**, OR **NOT GOOD**.

SELECT

review_content

FROM

mytable

WHERE

review_content **LIKE** '%worst%'

OR **review_content** **LIKE** '%waste%'

OR **review_content** **LIKE** '%poor%'

OR **review_content** **LIKE** '%not good%'



PURPOSE

The purpose of the query is to retrieve all rows from the mytable where the review_content contains negative words or phrases such as:

"worst","waste","poor","not good"

This helps in identifying negative reviews to analyze customer dissatisfaction.

review_content

Worth for money - suitable for Android auto....

Check for offera before buying, 18w charging c.

LG was always Good , correct delivery, good se

This connector has provided as a boon for my o

Overall good.,TV picture ok smart betterSound

About the TV - Wonderful-----

Q10.LIST ALL PRODUCTS WHERE THE CATEGORY INCLUDES "ACCESSORIES."

SELECT

product_id, product_name, category

FROM

mytable

WHERE

category LIKE '%Accessories%'



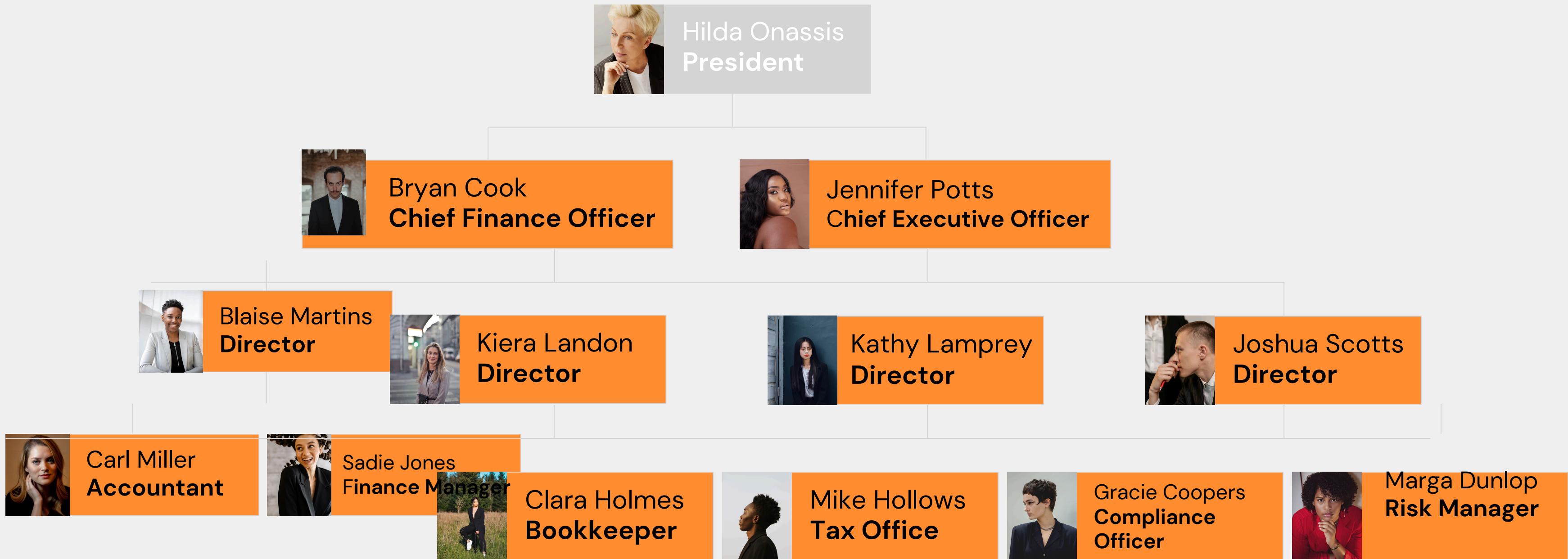
PURPOSE

The purpose of the query is to retrieve products from mytable where the category contains the word "Accessories". This helps in filtering products related to accessories for further analysis or reporting.

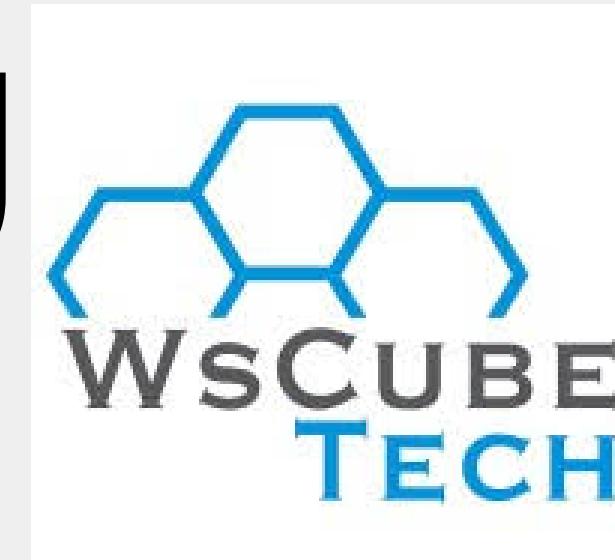
product_id	product_name	category
B07JW9H4J1	Wayona Nylon Braided USB to Lightning Fast...	Computers&Accessories Accessories&Peripheral...
B098NS6PVG	Ambrane Unbreakable 60W / 3A Fast Chargi...	Computers&Accessories Accessories&Peripheral...
B096MSW6CT	Source Fast Phone Charging Cable & Data S...	Computers&Accessories Accessories&Peripheral...
B08HDJ86NZ	boAt Deuce USB 300 2 in 1 Type-C & Micro U...	Computers&Accessories Accessories&Peripheral...
B08CF3B7N1	Portronics Konnect L 1.2M Fast Charging 3A ...	Computers&Accessories Accessories&Peripheral...
B08Y1TFSP6	pTron Solero TB301 3A Type-C Data and Fa...	Computers&Accessories Accessories&Peripheral...

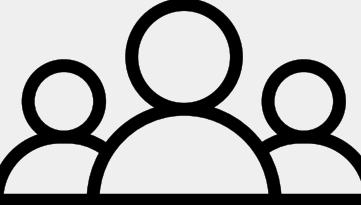


SQL query that could summarize Amazon sales data. This query assumes you have a basic table structure for tracking products, orders, and sales.



THANK YOU



Connect with me 



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