AMAZON SALES REPORT

WEEK 4 CASE STUDY

SUBMITTED BY

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OBJECTIVE

The objective of this project is to analyze product and review data from amazon using SQL queries. As a Data analyst at Amazon, your task is to extract meaningful insights from dataset by filtering, comparing, and identifying specific products and review attributes based on pricing, discount percentages, product names, and review content. This analysis will support the management in understanding customer behavior, pricing impact and product performace.
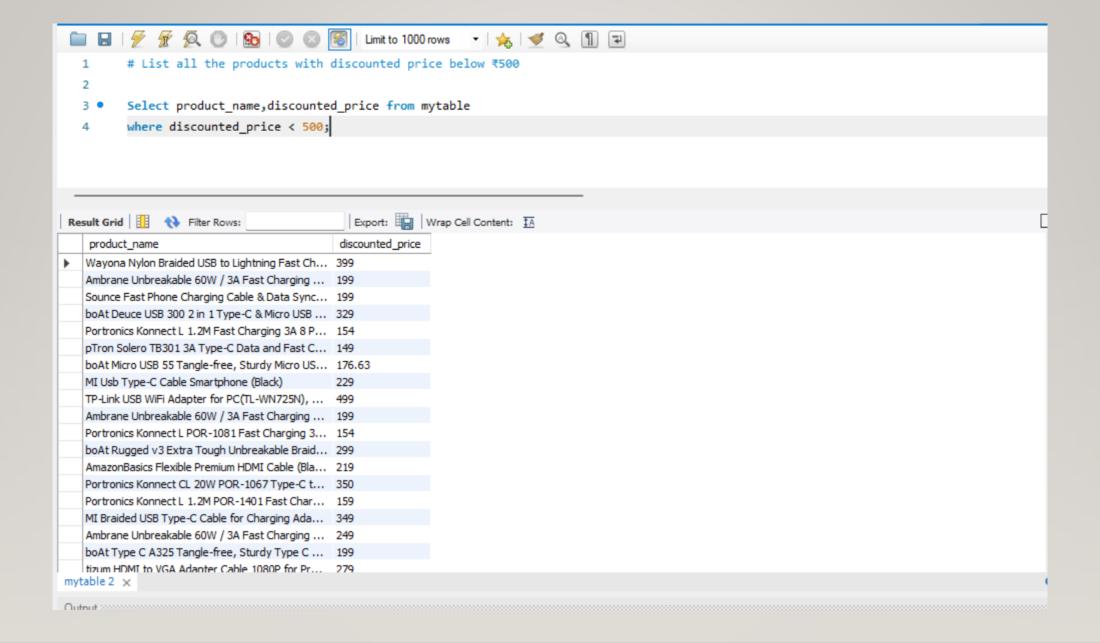
PROBLEM STATEMENTS

- List all products with a discounted price below ₹500.

- Find products with a discount percentage of 50% or more.

- Retrieve all products where the name contains the word "Cable."

- Display the difference between the average of the actual price and the discounted price for each product.

- Query reviews that mention "fast charging" in their content.

- Identify products with a discount percentage between 20% and 40%.

- Find products that have an actual price above ₹1,000 and are rated 4 stars or above.

- Find products where the discounted price ends with a 9

- Display review contents that contains words like worst, waste, poor, or not good.

- List all products where the category includes "Accessories."

LIST ALL PRODUCTS WITH A DISCOUNTED PRICE BELOW ₹500.

- Write a query as follows

Select product_name,discounted_price from mytable
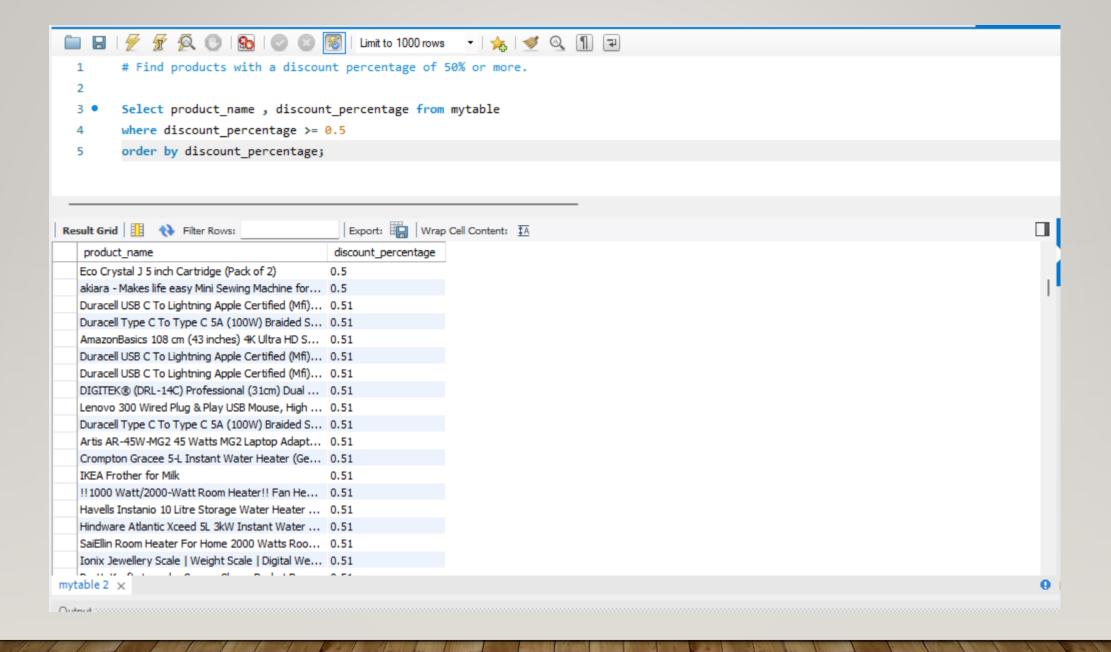
where discounted_price < 500;

```sql
1    # List all the products with discounted price below ₹500
2
3 •  Select product_name,discounted_price from mytable
4    where discounted_price < 500;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

product_name	discounted_price
Wayona Nylon Braided USB to Lightning Fast Ch...	399
Ambrane Unbreakable 60W / 3A Fast Charging ...	199
Sounce Fast Phone Charging Cable & Data Sync...	199
boAt Deuce USB 300 2 in 1 Type-C & Micro USB ...	329
Portronics Konnect L 1.2M Fast Charging 3A 8 P...	154
pTron Solero TB301 3A Type-C Data and Fast C...	149
boAt Micro USB 55 Tangle-free, Sturdy Micro US...	176.63
MI Usb Type-C Cable Smartphone (Black)	229
TP-Link USB WiFi Adapter for PC(TL-WN725N), ...	499
Ambrane Unbreakable 60W / 3A Fast Charging ...	199
Portronics Konnect L POR-1081 Fast Charging 3...	154
boAt Rugged v3 Extra Tough Unbreakable Braid...	299
AmazonBasics Flexible Premium HDMI Cable (Bla...	219
Portronics Konnect CL 20W POR-1067 Type-C t...	350
Portronics Konnect L 1.2M POR-1401 Fast Char...	159
MI Braided USB Type-C Cable for Charging Ada...	349
Ambrane Unbreakable 60W / 3A Fast Charging ...	249
boAt Type C A325 Tangle-free, Sturdy Type C ...	199
tizum HDMI to VGA Adapter Cable 1080P for Pr...	279

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Output

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

- Write a query as follows

Select product_name , discount_percentage from mytable

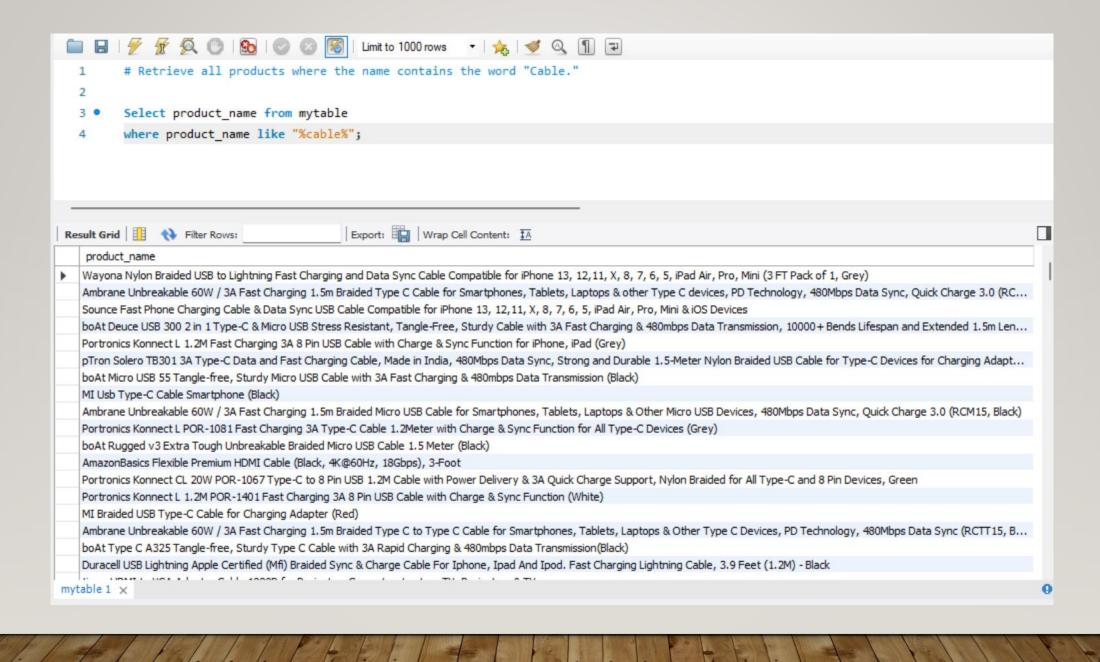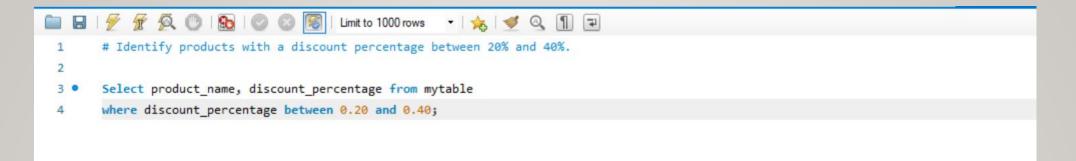where discount_percentage >= 0.5

order by discount_percentage;

```sql
1   # Find products with a discount percentage of 50% or more.
2
3 • Select product_name , discount_percentage from mytable
4   where discount_percentage >= 0.5
5   order by discount_percentage;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: IA

product_name	discount_percentage
Eco Crystal J 5 inch Cartridge (Pack of 2)	0.5
akiara - Makes life easy Mini Sewing Machine for...	0.5
Duracell USB C To Lightning Apple Certified (Mfi)...	0.51
Duracell Type C To Type C 5A (100W) Braided S...	0.51
AmazonBasics 108 cm (43 inches) 4K Ultra HD S...	0.51
Duracell USB C To Lightning Apple Certified (Mfi)...	0.51
Duracell USB C To Lightning Apple Certified (Mfi)...	0.51
DIGITEK® (DRL-14C) Professional (31cm) Dual ...	0.51
Lenovo 300 Wired Plug & Play USB Mouse, High ...	0.51
Duracell Type C To Type C 5A (100W) Braided S...	0.51
Artis AR-45W-MG2 45 Watts MG2 Laptop Adapt...	0.51
Crompton Gracee 5-L Instant Water Heater (Ge...	0.51
IKEA Frother for Milk	0.51
!!1000 Watt/2000-Watt Room Heater!! Fan He...	0.51
Havells Instanio 10 Litre Storage Water Heater ...	0.51
Hindware Atlantic Xceed 5L 3kW Instant Water ...	0.51
SaiEllin Room Heater For Home 2000 Watts Roo...	0.51
Ionix Jewellery Scale	Weight Scale	Digital We...	0.51

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

- Write a query as follows

Select product_name from mytable

where product_name like "%cable%";

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

- Write a query as follows

Select avg(actual_price)-avg(discounted_price) Difference from mytable;

```sql
# Display the difference between the average of the actual price and the discounted price for each product.

Select avg(actual_price)-avg(discounted_price) Difference from mytable;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Difference
2319.67976109215 12

Result 2 ✕

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

- Write query as follows

Select review_content from mytable

where review_content like "%fast charging%";

```sql
# Query reviews that mention "fast charging" in their content.

Select review_content from mytable
where review_content like "%fast charging%";
```

Limit to 1000 rows

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

review_content
I ordered this cable to connect my phone to Android Auto of car. The cable is really strong and the connection ports are really well made. I already has a Micro USB cable from Ambrane and it's s...
Good product,long wire,Charges good,Nice,I bought this cable for Rs.339 worthy product for this price, i tested it in various charger adapters 33w and 18w it supports fast charging as well.,Go...
I ordered this cable to connect my phone to Android Auto of car. The cable is really strong and the connection ports are really well made. I already has a Micro USB cable from Ambrane and it's s...
The cable is efficient in fast charging but in quick data transfer. Overall fine.,I like the usb c L shape. Nylon Shielded core wire it improves the life of the cable.,i think i buy these every 6 months...
Good product,long wire,Charges good,Nice,I bought this cable for Rs.339 worthy product for this price, i tested it in various charger adapters 33w and 18w it supports fast charging as well.,Go...
Definitely isn't as good as the original cord but works. Fast charging and pretty sturdy,Worth it,So I had a faulty cable. I was lazy and have a lot of money so instead of calling Apple I bought thi...
I like it 👍👍,Best charging power . I used this cable on note 8 pro mi. Using 8month also fast working.,350 might be a little expensive but physically it's so good. Feels premium. But power limitati...
I ordered this cable to connect my phone to Android Auto of car. The cable is really strong and the connection ports are really well made. I already has a Micro USB cable from Ambrane and it's s...
Check for offera before buying,18w charging cable,,Awesome cable!Charging, data transfer and durability is simply awesome, and there is not a single disconnection issue, which I always faced...
Worked on iPhone 7 and didn't work on iPhone XR,https://m.media-amazon.com/images/I/71qFFAlV9ZL._SY88.jpg,Look-wise, I didn't like it. Still, I use it for my work.,Product is quite good and is...
The product seems and works good but it's not a fast charging cable as it has to be and when all the three ports are connected its more slower I'm charging only good is single cable all three po...
Fast charging.,Cable seems to be of good quality, not used much as I keep it as backup in my car.,It's good, sturdy & durable!It supports fast charging!Only thing is it's a little expensive!,Nice p...
One amazing cable for 300 bucks,Ok with charging. Looks very sturdy and durable.,Fast charging upto 25watts 2m in length and really durable.Bought it like the 4th time passed down my older ...

mytable 1 ✕

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

- Write a query as follows

Select product_name, discount_percentage from mytable

where discount_percentage between 0.20 and 0.40;

```sql
1    # Identify products with a discount percentage between 20% and 40%.
2
3 •  Select product_name, discount_percentage from mytable
4    where discount_percentage between 0.20 and 0.40;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: $\overline{I\!A}$

product_name	discount_percentage
MI Usb Type-C Cable Smartphone (Black)	0.23
Ambrane Unbreakable 60W / 3A Fast Charging 1.5m Braided Micro USB Cable for Smartphones, Tablets, Laptops & Other Micro USB Devices, 480M...	0.33
Ambrane Unbreakable 60W / 3A Fast Charging 1.5m Braided Type C to Type C Cable for Smartphones, Tablets, Laptops & Other Type C Devices, P...	0.38
LG 80 cm (32 inches) HD Ready Smart LED TV 32LM563BPTC (Dark Iron Gray)	0.39
OnePlus 80 cm (32 inches) Y Series HD Ready LED Smart Android TV 32Y1 (Black)	0.25
Ambrane Unbreakable 3 in 1 Fast Charging Braided Multipurpose Cable for Speaker with 2.1 A Speed - 1.25 meter, Black	0.25
OnePlus 126 cm (50 inches) Y Series 4K Ultra HD Smart Android LED TV 50Y1S Pro (Black)	0.28
TP-Link Nano AC600 USB Wi-Fi Adapter(Archer T2U Nano)- 2.4G/5G Dual Band Wireless Network Adapter for PC Desktop Laptop, Mini Travel Size, S...	0.38
Amazon Basics High-Speed HDMI Cable, 6 Feet - Supports Ethernet, 3D, 4K video,Black	0.35
OnePlus 80 cm (32 inches) Y Series HD Ready Smart Android LED TV 32 Y1S (Black)	0.27
Samsung 108 cm (43 inches) Crystal 4K Neo Series Ultra HD Smart LED TV UA43AUE65AKXXL (Black)	0.31
Redmi 108 cm (43 inches) 4K Ultra HD Android Smart LED TV X43	L43R7-7AIN (Black)	0.37
OnePlus 108 cm (43 inches) Y Series 4K Ultra HD Smart Android LED TV 43Y1S Pro (Black)	0.25
Acer 127 cm (50 inches) I Series 4K Ultra HD Android Smart LED TV AR50AR2851UDFL (Black)	0.32
OnePlus 108 cm (43 inches) Y Series Full HD Smart Android LED TV 43 Y1S (Black)	0.22
MI 100 cm (40 inches) 5A Series Full HD Smart Android LED TV with 24W Dolby Audio & Metal Bezel-Less Frame (Black) (2022 Model)	0.27

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

- Write query as follows

Select product_name, actual_price, rating from mytable

where actual_price > 1000 and rating >= 4;

```sql
# Find products that have an actual price above ₹1,000 and are rated 4 stars or above.

Select product_name, actual_price, rating from mytable
where actual_price > 1000 and rating >= 4;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: $\overline{A}$

product_name	actual_price	rating
Wayona Nylon Braided USB to Lightning Fast Charging and Data Sync Cable Compatible for iPhone 13, 12,11, X, 8, 7, 6, 5, iPad Air, Pro, Mini (3 FT ...	1099	4.2
MI 80 cm (32 inches) 5A Series HD Ready Smart Android LED TV L32M7-5AIN (Black)	24999	4.2
LG 80 cm (32 inches) HD Ready Smart LED TV 32LM563BPTC (Dark Iron Gray)	21990	4.3
Duracell USB Lightning Apple Certified (Mfi) Braided Sync & Charge Cable For Iphone, Ipad And Ipod. Fast Charging Lightning Cable, 3.9 Feet (1.2...	1799	4.5
Samsung 80 cm (32 Inches) Wondertainment Series HD Ready LED Smart TV UA32T4340BKXXL (Glossy Black)	22900	4.3
Acer 80 cm (32 inches) I Series HD Ready Android Smart LED TV AR32AR2841HDFL (Black)	19990	4.3
OnePlus 80 cm (32 inches) Y Series HD Ready LED Smart Android TV 32Y1 (Black)	19999	4.2
Duracell USB C To Lightning Apple Certified (Mfi) Braided Sync & Charge Cable For Iphone, Ipad And Ipod. Fast Charging Lightning Cable, 3.9 Feet ...	1999	4.4
Zoul USB C 60W Fast Charging 3A 6ft/2M Long Type C Nylon Braided Data Cable Quick Charger Cable QC 3.0 for Samsung Galaxy M31S M30 S10 S...	1099	4.3
Amazonbasics Nylon Braided Usb-C To Lightning Cable, Fast Charging Mfi Certified Smartphone, Iphone Charger (6-Foot, Dark Grey)	1900	4.4
OnePlus 126 cm (50 inches) Y Series 4K Ultra HD Smart Android LED TV 50Y1S Pro (Black)	45999	4.2
Duracell Type C To Type C 5A (100W) Braided Sync & Fast Charging Cable, 3.9 Feet (1.2M). USB C to C Cable, Supports PD & QC 3.0 Charging, 5 ...	1999	4.2
Mi 108 cm (43 inches) Full HD Android LED TV 4C	L43M6-INC (Black)	34999	4.3
Wayona Nylon Braided 3A Lightning to USB A Syncing and Fast Charging Data Cable for iPhone, Ipad (3 FT Pack of 1, Black)	1099	4.2
TP-Link Nano AC600 USB Wi-Fi Adapter(Archer T2U Nano)- 2.4G/5G Dual Band Wireless Network Adapter for PC Desktop Laptop, Mini Travel Size, S...	1599	4.3
D-Link DWA-131 300 Mbps Wireless Nano USB Adapter (Black)	1208	4.1

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FIND PRODUCTS WHERE THE DISCOUNTED PRICE ENDS WITH A 9

- Write a query as follows

Select product_name, discounted_price from mytable

where discounted_price like "%9"

order by discounted_price;

```
1    # Find products where the discounted price ends with a 9
2
3 ●  Select product_name, discounted_price from mytable
4    where discounted_price like "%9"
5    order by discounted_price;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: IA | Fetch rows:

product_name	discounted_price
GIZGA essentials Universal Silicone Keyboard Protector Skin for 15.6-inches Laptop (5 x 6 x 3 inches)	39
E-COSMOS 5V 1.2W Portable Flexible USB LED Light (Colours May Vary, Small, EC-POF1)	39
Inventis 5V 1.2W Portable Flexible USB LED Light Lamp (Colors may vary)	39
FLiX (Beetel Flow USB to Micro USB PVC Data Sync & 12W(2.4A) Fast Charging Cable,Made in India,480Mbps Data Sync,Solid Cable,1 Meter Long c...	57.89
Flix Micro Usb Cable For Smartphone (Black)	59
FLiX (Beetel USB to Micro USB PVC Data Sync & 2A Fast Charging Cable, Made in India, 480Mbps Data Sync, Solid Cable, 1 Meter Long USB Cable fo...	59
Flix Micro Usb Cable For Smartphone (Black)	59
E-COSMOS 5V 1.2W Portable Flexible USB LED Light (Colors May Vary, Small) - Set of 2 Pieces	59
Flix Micro Usb Cable For Smartphone (Black)	59
Gizga Essentials Webcam Cover, Privacy Protector Webcam Cover Slide, Compatible with Laptop, Desktop, PC, Smartphone, Protect Your Privacy a...	69
STRIFF 12 Pieces Highly Flexible Silicone Micro USB Protector, Mouse Cable Protector, Suit for All Cell Phones, Computers and Chargers (Black)	79
Kitchenwell 18Pc Plastic Food Snack Bag Pouch Clip Sealer for Keeping Food Fresh for Home, Kitchen, Camping Snack Seal Sealing Bag Clips (Multi-C...	79
pTron Solero M241 2.4A Micro USB Data & Charging Cable, Made in India, 480Mbps Data Sync, Durable 1-Meter Long USB Cable for Micro USB Devi...	89
Elv Mobile Phone Mount Tabletop Holder for Phones and Tablets - Black	89
STRIFF Wall Mount Phone Holder Wall Mount with Adhesive Strips, Charging Holder Compatible with iPhone, Smartphone and Mini Tablet (Pack of 1)...	89
E-COSMOS Plug in LED Night Light Mini USB LED Light Flexible USB LED Ambient Light Mini USB LED Light, LED Portable car Bulb, Indoor, Outdoor, Re...	89

mytable 3 ✕

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

- Write query as follows

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%";

```sql
# 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%";
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

review_content
Worth for money - suitable for Android auto... my purpose served in car....got it for Rs. 150,Everything is Okay. But packaging is not good feeling like seller gave is used cable.,Good product,Go...
Check for offera before buying,18w charging cable,,Awesome cable!Charging, data transfer and durability is simply awesome, and there is not a single disconnection issue, which I always faced...
LG was always Good , correct delivery, good service but sound quality was poor. The speakers were fitted below the tv. No clear sound. That was the only problem.,Good videoGood vice,Pictur...
This connector has provided as a boon for my old Samsung LCD monitor and I am proactively using that monitor as the 2nd screen just if the finishing of the product can be improved then it woul...
Overall good.,TV picture ok smart betterSound very low another brand,Service provider refuse install my TV, bad service and samsung, I am calling 3 times service provider. Not meet my home ...
About the TV - Wonderful--Probably the best TV in this price range (INR 13000).Good - Google interface, loaded with features, lightweight, 55 ...
This OnePlus TV is great if you want a affordable and middle range features TV. I got it in the offer and it was totally worth it.Pros:-1. Sound is awesome - 100% satisfied with the quality of sou...
Buy it,Received in good condition and is working properly,This price cabil not good, and also short,I am using from 2 months and charging the phone in good way and it's really value for money.....
I am posting this after a few weeks of using the product.Usage: Continuous, OTT only, no Cable/Dish operator.Average daily usage: 6-8 hours.The TV is a great value-for-money product.Install...
NOTE:@ If you select brand-authorized TV installation, then DO NOT unbox the tv until MI representative arrives.This ensures, that if TV is damaged in transportation, then you will get replace...
Overall replacement of original samsung remote.its compatible easily with my samsung uhd tv.but there is no voice command in the remote.,Works well. Will comment on durability after using it f...
I am using this on an old Mac Mini, since the Broadcom proprietary drivers aren't available and the replacement B43 drivers don't allow for sufficient download speeds, at least in my experience. ...

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LIST ALL PRODUCTS WHERE THE CATEGORY INCLUDES "ACCESSORIES."

- Write query as follows

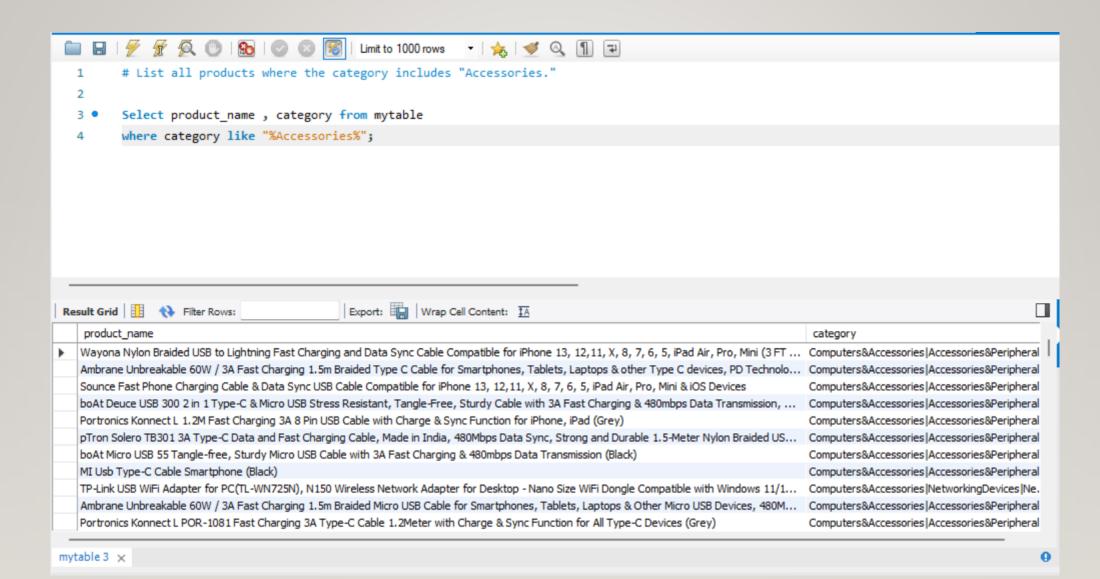Select product_name , category from mytable

where category like "%Accessories%";

```sql
1    # List all products where the category includes "Accessories."
2
3 •  Select product_name , category from mytable
4    where category like "%Accessories%";
```

Limit to 1000 rows

Result Grid | Filter Rows: | Export: | Wrap Cell Content: $\overline{IA}$

product_name	category
Wayona Nylon Braided USB to Lightning Fast Charging and Data Sync Cable Compatible for iPhone 13, 12,11, X, 8, 7, 6, 5, iPad Air, Pro, Mini (3 FT ...	Computers&Accessories|Accessories&Peripheral
Ambrane Unbreakable 60W / 3A Fast Charging 1.5m Braided Type C Cable for Smartphones, Tablets, Laptops & other Type C devices, PD Technolo...	Computers&Accessories|Accessories&Peripheral
Sounce Fast Phone Charging Cable & Data Sync USB Cable Compatible for iPhone 13, 12,11, X, 8, 7, 6, 5, iPad Air, Pro, Mini & iOS Devices	Computers&Accessories|Accessories&Peripheral
boAt Deuce USB 300 2 in 1 Type-C & Micro USB Stress Resistant, Tangle-Free, Sturdy Cable with 3A Fast Charging & 480mbps Data Transmission, ...	Computers&Accessories|Accessories&Peripheral
Portronics Konnect L 1.2M Fast Charging 3A 8 Pin USB Cable with Charge & Sync Function for iPhone, iPad (Grey)	Computers&Accessories|Accessories&Peripheral
pTron Solero TB301 3A Type-C Data and Fast Charging Cable, Made in India, 480Mbps Data Sync, Strong and Durable 1.5-Meter Nylon Braided US...	Computers&Accessories|Accessories&Peripheral
boAt Micro USB 55 Tangle-free, Sturdy Micro USB Cable with 3A Fast Charging & 480mbps Data Transmission (Black)	Computers&Accessories|Accessories&Peripheral
MI Usb Type-C Cable Smartphone (Black)	Computers&Accessories|Accessories&Peripheral
TP-Link USB WiFi Adapter for PC(TL-WN725N), N150 Wireless Network Adapter for Desktop - Nano Size WiFi Dongle Compatible with Windows 11/1...	Computers&Accessories|NetworkingDevices|Ne...
Ambrane Unbreakable 60W / 3A Fast Charging 1.5m Braided Micro USB Cable for Smartphones, Tablets, Laptops & Other Micro USB Devices, 480M...	Computers&Accessories|Accessories&Peripheral
Portronics Konnect L POR-1081 Fast Charging 3A Type-C Cable 1.2Meter with Charge & Sync Function for All Type-C Devices (Grey)	Computers&Accessories|Accessories&Peripheral

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THANK YOU