

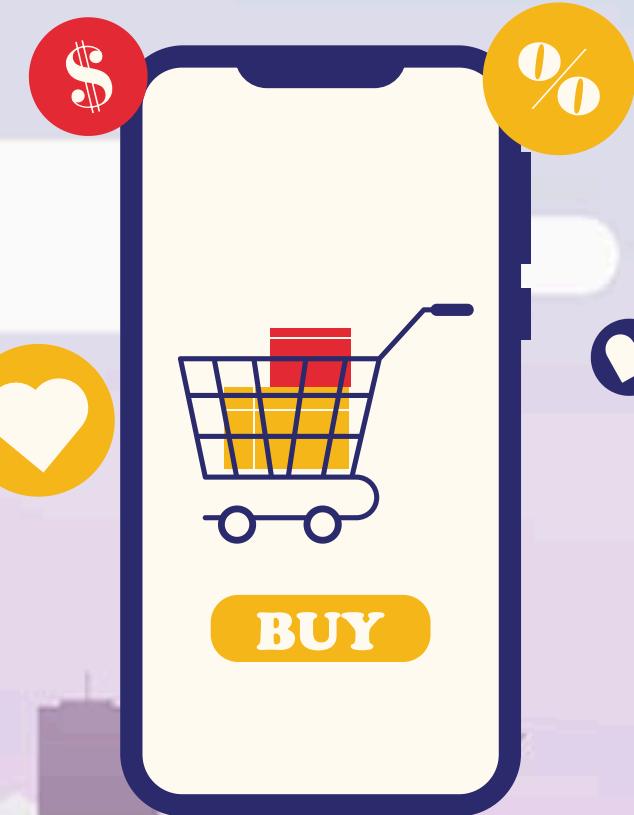


Querying Amazon Data:

A SQL Approach

OBJECTIVE:

- THE OBJECTIVE OF THE AMAZON SALES ANALYSIS DATABASE USING SQL IS TO ORGANIZE AND ANALYZE SALES DATA TO IDENTIFY REVENUE TRENDS, CUSTOMER BEHAVIOR, AND PRODUCT PERFORMANCE, ENABLING SMARTER BUSINESS DECISIONS.



KEY POINTS

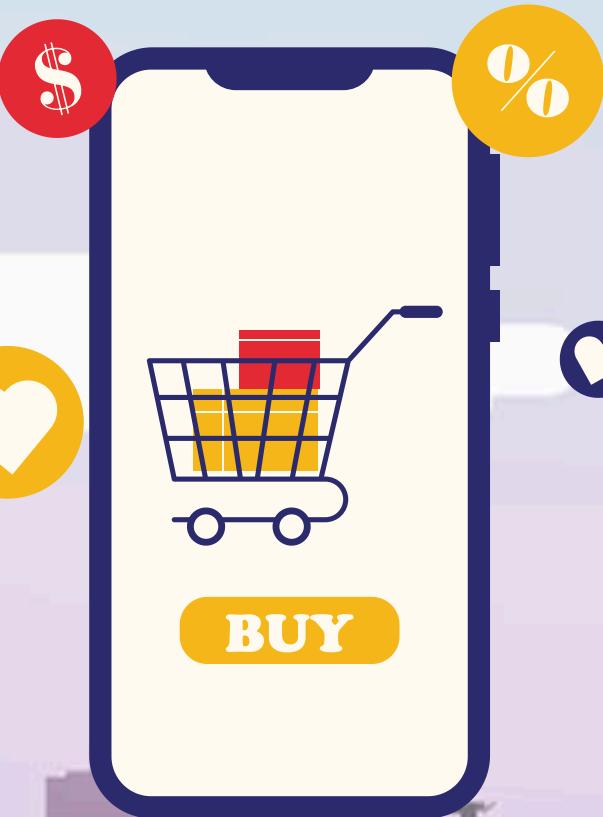
- STORE AND MANAGE LARGE VOLUMES OF SALES, PRODUCT, AND CUSTOMER DATA.
- USE SQL QUERIES TO TRACK REVENUE, DISCOUNTS, AND PROFIT MARGINS.
- IDENTIFY TOP-SELLING PRODUCTS, SEASONAL DEMAND, AND REGIONAL TRENDS.
- ANALYZE CUSTOMER PURCHASING PATTERNS TO IMPROVE MARKETING STRATEGIES.
- PROVIDE A SOLID BACKEND FOR REPORTS AND BI DASHBOARDS (POWER BI/TABLEAU).



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

FORMULA

```
6   # list all products with a discounted price below ₹
7 • select
8   product_id,
9   product_name,
10  discounted_price
11  from
12  mytable
13  where `discounted_price` < 500;
```



amazon

SOLUTION

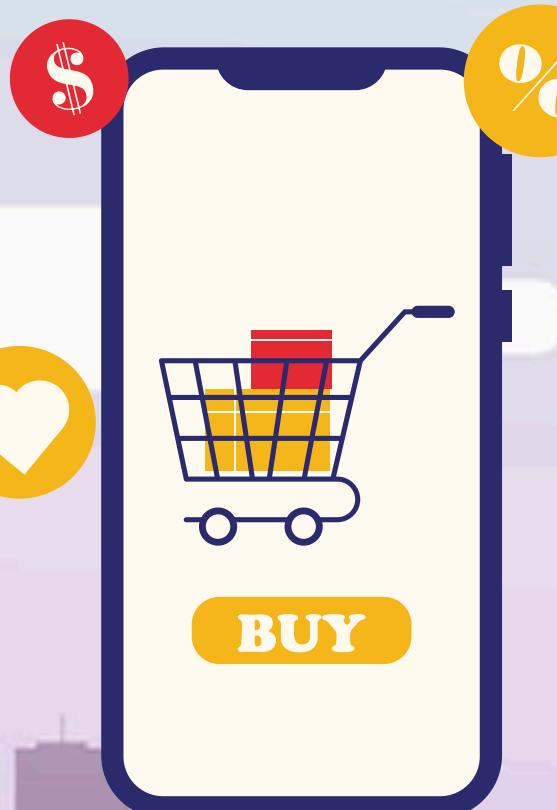
product_id	product_name	discounted_price
B07JW9H4J1	Wayona Nylon Braided USB to Lightning Fast Ch...	399
B098NS6PVG	Ambrane Unbreakable 60W / 3A Fast Charging ...	199
B096MSW6CT	Sounce Fast Phone Charging Cable & Data Sync...	199
B08HDJ86NZ	boAt Deuce USB 300 2 in 1 Type-C & Micro US...	329
B08CF3B7N1	Portronics Konnect L 1.2M Fast Charging 3A 8 P...	154
B08Y1TFSP6	pTron Solero TB301 3A Type-C Data and Fast C...	149
B08WRWPM22	boAt Micro USB 55 Tangle-free, Sturdy Micro US...	176.63
B08DDRGWTJ	MI Usb Type-C Cable Smartphone (Black)	229
B008IFXQFU	TP-Link USB WiFi Adapter for PC(TL-WN725N), ...	499
B082LZGK39	Ambrane Unbreakable 60W / 3A Fast Charging ...	199
B08CF3D7QR	Portronics Konnect L POR-1081 Fast Charging 3...	154
B0789LZTCJ	boAt Rugged v3 Extra Tough Unbreakable Braid...	299
B07KSMBL2H	AmazonBasics Flexible Premium HDMI Cable (Bla...	219



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

FORMULA

```
15  # Find products with a discount percentage of 50% or more.  
16 • select  
17  product_id,  
18  product_name,  
19  discount_percentage  
20  from  
21  mytable  
22  where `discount_percentage` |
```



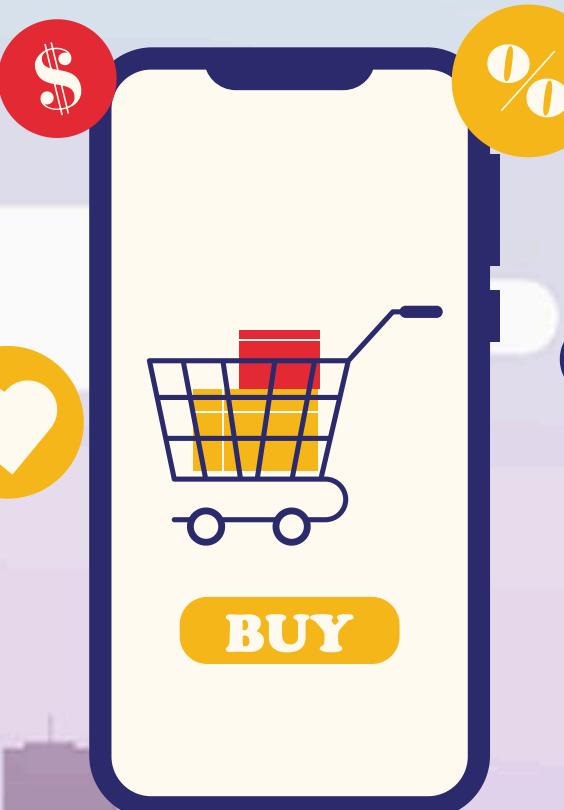
	product_id	product_name	discount_percentage
▶	B07JW9H4J1	Wayona Nylon Braided USB to Lightning Fast Ch...	0.64
	B098NS6PVG	Ambrane Unbreakable 60W / 3A Fast Charging ...	0.43
	B096MSW6CT	Sounce Fast Phone Charging Cable & Data Sync...	0.9
	B08HDJ86NZ	boAt Deuce USB 300 2 in 1 Type-C & Micro USB ...	0.53
	B08CF3B7N1	Portronics Konnect L 1.2M Fast Charging 3A 8 P...	0.61
	B08Y1TFSP6	pTron Solero TB301 3A Type-C Data and Fast C...	0.85
	B08WRWPM22	boAt Micro USB 55 Tangle-free, Sturdy Micro US...	0.65
	B08DDRGWTJ	MI Usb Type-C Cable Smartphone (Black)	0.23
	B008IFXQFU	TP-Link USB WiFi Adapter for PC(TL-WN725N), ...	0.5
	B082LZGK39	Ambrane Unbreakable 60W / 3A Fast Charging ...	0.33
	B08CF3D7QR	Portronics Konnect L POR-1081 Fast Charging 3...	0.55
	B0789LZTCJ	boAt Rugged v3 Extra Tough Unbreakable Braid...	0.63
	B07KSMBL2H	AmazonBasics Flexible Premium HDMI Cable (Bla...	0.69
	B085DTN6R2	Portronics Konnect CL 20W POR-1067 Type-C t...	0.61



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

FORMULA

```
24      # Retrieve all products where the name contains the word "Cable."  
25 •  select  
26    *  
27  from  
28 mytable  
29 where  
30 product_name like '%cable%';
```



amazon

SOLUTION

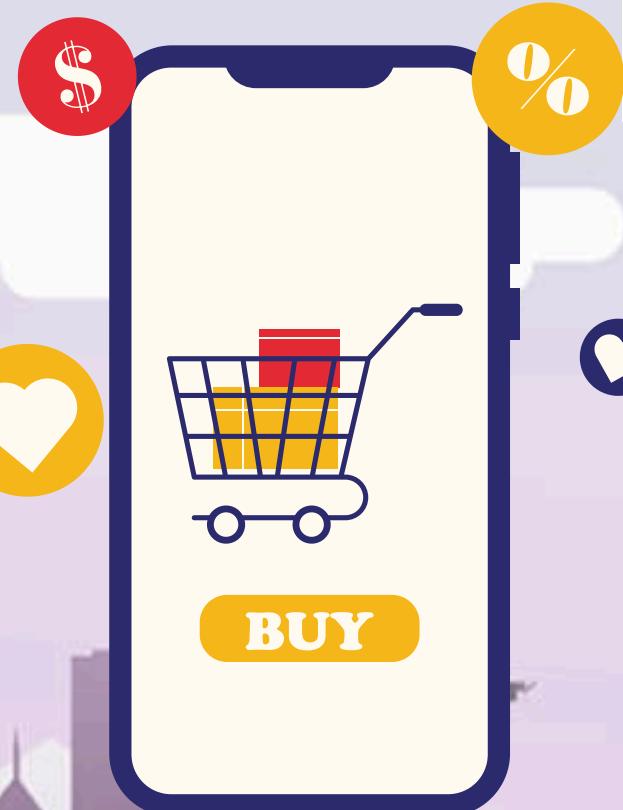
	product_id	product_name
▶	B07JW9H4J1	Wayona Nylon Braided USB to Lightning Fast Charging and Data Sync Cable Compatible for iPhone 13, 12, 11, X, 8, 7, 6, 5, iPad Air, Pro, Mini
	B098NS6PVG	Ambrane Unbreakable 60W / 3A Fast Charging 1.5m Braided Type C Cable for Smartphones, Tablets, Laptops & other Type C devices, PD Te
	B096MSW6CT	Source 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
	B08HDJ86NZ	boAt Deuce USB 300 2 in 1 Type-C & Micro USB Stress Resistant, Tangle-Free, Sturdy Cable with 3A Fast Charging & 480Mbps Data Transmis
	B08CF3B7N1	Portronics Konnect L 1.2M Fast Charging 3A 8 Pin USB Cable with Charge & Sync Function for iPhone, iPad (Grey)
	B08Y1TFSP6	pTron Solero TB301 3A Type-C Data and Fast Charging Cable, Made in India, 480Mbps Data Sync, Strong and Durable 1.5-Meter Nylon Braid
	B08WRWPM22	boAt Micro USB 55 Tangle-free, Sturdy Micro USB Cable with 3A Fast Charging & 480mbps Data Transmission (Black)
	B08DDRGWTJ	MI Usb Type-C Cable Smartphone (Black)
	B082LZGK39	Ambrane Unbreakable 60W / 3A Fast Charging 1.5m Braided Micro USB Cable for Smartphones, Tablets, Laptops & Other Micro USB Devices,
	B08CF3D7QR	Portronics Konnect L POR-1081 Fast Charging 3A Type-C Cable 1.2Meter with Charge & Sync Function for All Type-C Devices (Grey)
	B0789LZTCJ	boAt Rugged v3 Extra Tough Unbreakable Braided Micro USB Cable 1.5 Meter (Black)
	B07KSMBL2H	AmazonBasics Flexible Premium HDMI Cable (Black, 4K@60Hz, 18Gbps), 3-Foot



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

FORMULA

```
32  # Display the difference between the average of the actual price and the discounted price for each product.  
33 • select  
34   product_name,  
35   avg(actual_price-discounted_price)  
36   from  
37   mytable  
38   group by  
39   product_name;
```



SOLUTION

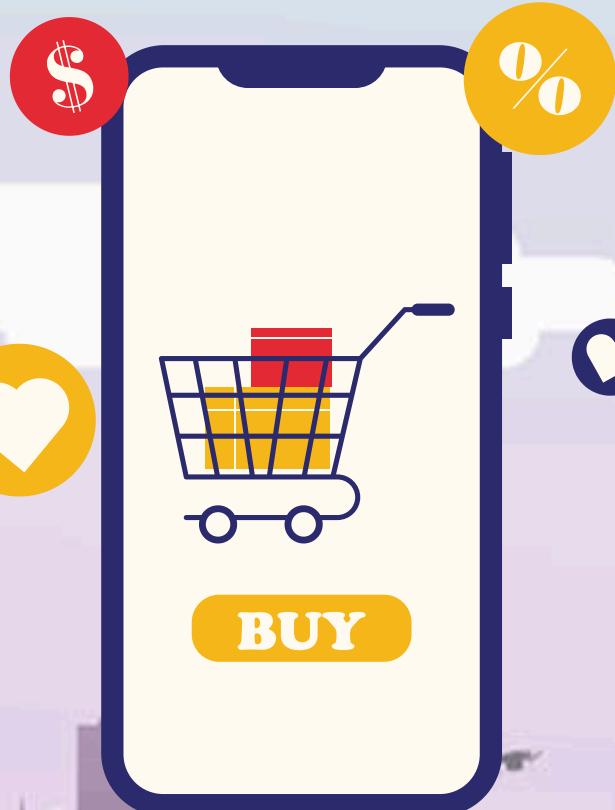
	product_name	avg(actual_price-discounted_price)
▶	Wayona Nylon Braided USB to Lightning Fast Charging an...	700
	Ambrane Unbreakable 60W / 3A Fast Charging 1.5m Brai...	150
	Source Fast Phone Charging Cable & Data Sync USB Cab...	1100
	boAt Deuce USB 300 2 in 1 Type-C & Micro USB Stress Re...	370
	Portronics Konnect L 1.2M Fast Charging 3A 8 Pin USB Ca...	245
	pTron Solero TB301 3A Type-C Data and Fast Charging C...	851
	boAt Micro USB 55 Tangle-free, Sturdy Micro USB Cable ...	322.37
	MI Usb Type-C Cable Smartphone (Black)	70
	TP-Link USB WiFi Adapter for PC(TL-WN725N), N150 Wir...	500
	Ambrane Unbreakable 60W / 3A Fast Charging 1.5m Brai...	100
	Portronics Konnect L POR-1081 Fast Charging 3A Type-C...	185
	boAt Rugged v3 Extra Tough Unbreakable Braided Micro ...	500
	AmazonBasics Flexible Premium HDMI Cable (Black, 4K@6...	481
	Portronics Konnect CI 20W POR-1067 Type-C to 8 Pin HS	549



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

FORMULA

```
41  # Query reviews that mention "fast charging" in their content.  
42 • select  
43   review_title  
44   from  
45   mytable  
46   where  
47   review_title like "%fast charging%";
```



SOLUTION

review_title
Works,Nice Product,Fast Charging as original,Good for data transfer,Average. Cost effective,Good quality,Great Product,Nice Great but,Worked well for 6 six months that's it,Compatible with Apple iPad 2nd generation and charging very well.,CABLE,The product is good but the phone gets discon...
Good product,using this product 8months It is done I have not faced any problem so far, its build quality best,I really liked this one.,Very strong and support fast chargin...
Good for charging and Data transfer,ହଜୁବତ,Good Quality but less Power Delivery,Fantastic!,Good,Not useful,Doesn't fit properly,Can't support Oppo mobile for fast char...
Very good product.,Using as a spare cable in car,Sturdy, Durable, Fast Charging!,Good brand,It's like original apple cable,One of the best wire ..,Super well build. Quality...
Nice,Awesome,Quick not charger,Expensive at this price,Multiple mobile can't be charged at a time,THIS IS FAST CHARGING ON BOTH MY SAMSUNG PHONES AND IPH...
Good.,Good product,Ultimate product,Good Product,Not that good. But ok for the price.,Fast cable,Fast charging ,Best Alternative to Original Cable
Very good product and met my need. Thanks,Decent value,Nice quality... trustable...,Just well in this price.,supports 2.4 amps fast charging,Nice,Nice.,Value for money
Better..!!,Charging speed is not guaranteed!,Exactly as advertised,Excellent warp charge cable,Nice,Amazing cable,Best fast charging cable,Really a good cable, Recom...
GOOD,Thank you Amazon very good charging cable,Good,Very good product,good quality,Very Good Product,This is fast charging USB!,Simply perfect at the price of be...
Nice product .,Good quality Braided cable, VFM,Good cord, but has Earthing issue,Ok,Good product. Little bit fast charger for phones like redmi.,Fast charging is working ...
Good,I don't like this product,Awesome product,Best cable for iphone xs .. works well with fast charging brick,Low quality pin but wire is fine,Excellent quality,Awesome q...
Good material, fast charging,Costly but good product,Support type c super fast charging,Good quality,Sturdy cable & has decent charging capabilities.,Good buy.,Gud pr...



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

FORMULA

```
49  # Identify products with a discount percentage between 20% and 40%.  
50 • select  
51  product_id,  
52  product_name,  
53  discount_percentage  
54  from  
55  mytable  
56  where  
57  discount_percentage between 0.20 and 0.40;
```



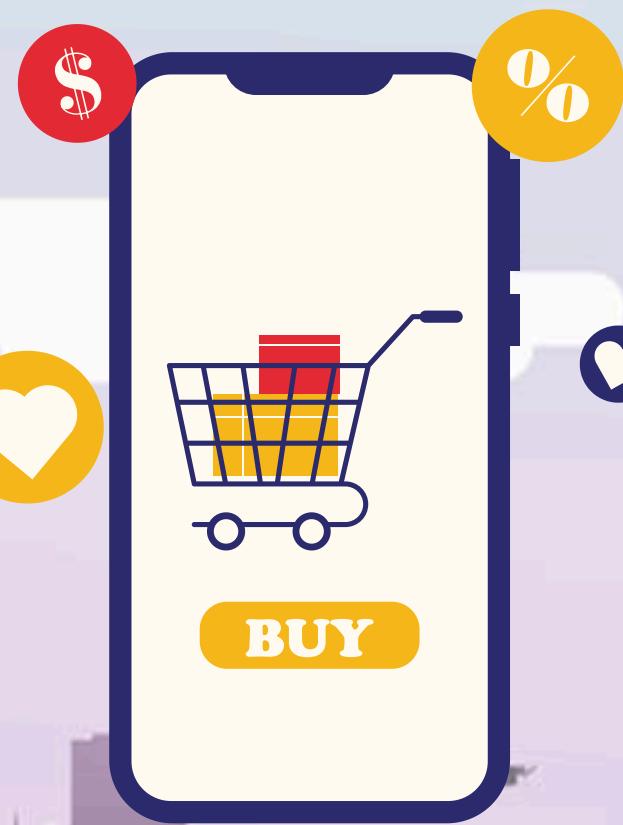
SOLUTION

	product_id	product_name	discount_percentage
▶	B08DDRGWTJ	MI Usb Type-C Cable Smartphone (Black)	0.23
	B082LZGK39	Ambrane Unbreakable 60W / 3A Fast Charging 1.5m Braided Micro USB Cable for Smartphones, T...	0.33
	B082LSVT4B	Ambrane Unbreakable 60W / 3A Fast Charging 1.5m Braided Type C to Type C Cable for Smartph...	0.38
	B08DPLCM6T	LG 80 cm (32 inches) HD Ready Smart LED TV 32LM563BPTC (Dark Iron Gray)	0.39
	B08B42LWKN	OnePlus 80 cm (32 inches) Y Series HD Ready LED Smart Android TV 32Y1 (Black)	0.25
	B094JNXNPV	Ambrane Unbreakable 3 in 1 Fast Charging Braided Multipurpose Cable for Speaker with 2.1 A Sp...	0.25
	B0B3MMYHYW	OnePlus 126 cm (50 inches) Y Series 4K Ultra HD Smart Android LED TV 50Y1S Pro (Black)	0.28
	B07KRCW6LZ	TP-Link Nano AC600 USB Wi-Fi Adapter(Archer T2U Nano)- 2.4G/5G Dual Band Wireless Network ...	0.38
	B014I8SSD0	Amazon Basics High-Speed HDMI Cable, 6 Feet - Supports Ethernet, 3D, 4K video, Black	0.35
	B09Q5SWWB1	OnePlus 80 cm (32 inches) Y Series HD Ready Smart Android LED TV 32 Y1S (Black)	0.27
	B0B15CPR37	Samsung 108 cm (43 inches) Crystal 4K Neo Series Ultra HD Smart LED TV UA43AUE65AKXXL (Black)	0.31
	B09RFC46VP	Redmi 108 cm (43 inches) 4K Ultra HD Android Smart LED TV X43 L43R7-7AIN (Black)	0.37
	B09VCHLSJF	OnePlus 108 cm (43 inches) Y Series 4K Ultra HD Smart Android LED TV 43Y1S Pro (Black)	0.25
	B0B1YZX72F	Acer 127 cm (50 inches) I Series 4K Ultra HD Android Smart LED TV AR50AR2851UDFL (Black)	0.32

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

FORMULA

```
59      # Find products that have an actual price above 71,000 and are rated 4 stars or above.  
60  • select  
61      product_id,  
62      product_name,  
63      actual_price,  
64      rating  
65      from  
66      mytable  
67      where actual_price > 1000 and rating >=4;
```



amazon

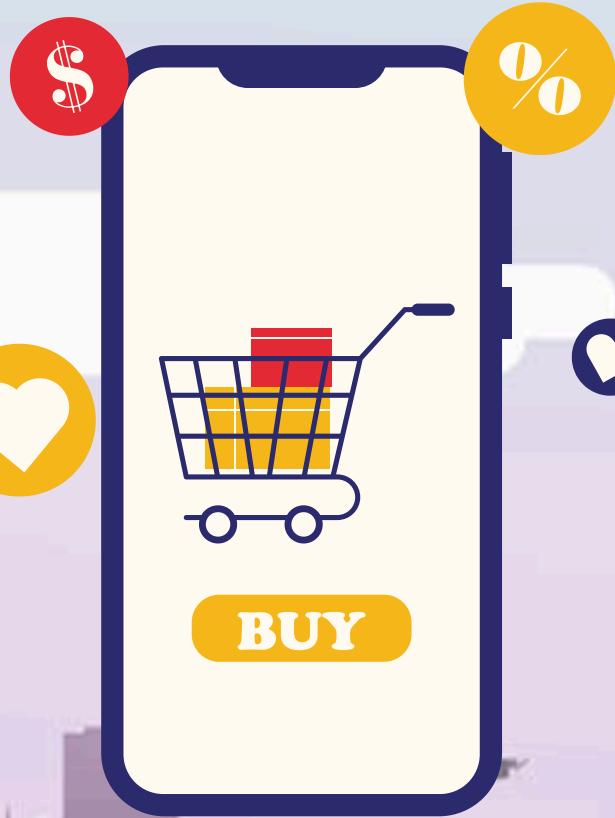
SOLUTION

	product_id	product_name	actual_price	rating
►	B07JW9H4J1	Wayona Nylon Braided USB to Lightning Fast Charging and Data Sync Cable Compatible for iPhone X/XS/XR/XS Max/8/8 Plus/7/7 Plus/6/6 Plus/5/5S/5C/SE/iPad/iPod/iWatch (Black)	1099	4.2
	B0B6F7LX4C	MI 80 cm (32 inches) 5A Series HD Ready Smart Android LED TV L32M7-5AIN (Black)	24999	4.2
	B08DPLCM6T	LG 80 cm (32 inches) HD Ready Smart LED TV 32LM563BPTC (Dark Iron Gray)	21990	4.3
	B09C6HXFC1	Duracell USB Lightning Apple Certified (MFi) Braided Sync & Charge Cable For Iphone, Ipad And I...	1799	4.5
	B09F6S8BT6	Samsung 80 cm (32 Inches) Wondertainment Series HD Ready LED Smart TV UA32T4340BXXL (G...	22900	4.3
	B0B1YVCJ2Y	Acer 80 cm (32 inches) I Series HD Ready Android Smart LED TV AR32AR2841HDFL (Black)	19990	4.3
	B08B42LWKN	OnePlus 80 cm (32 inches) Y Series HD Ready LED Smart Android TV 32Y1 (Black)	19999	4.2
	B09W5XR9RT	Duracell USB C To Lightning Apple Certified (MFi) Braided Sync & Charge Cable For Iphone, Ipad ...	1999	4.4
	B08QSC1XY8	Zoul USB C 60W Fast Charging 3A 6ft/2M Long Type C Nylon Braided Data Cable Quick Charger C...	1099	4.3
	B07XLCFSSN	Amazonbasics Nylon Braided Usb-C To Lightning Cable, Fast Charging Mfi Certified Smartphone, I...	1900	4.4
	B0B3MMYHYW	OnePlus 126 cm (50 inches) Y Series 4K Ultra HD Smart Android LED TV 50Y1S Pro (Black)	45999	4.2
	B09C6HWG18	Duracell Type C To Type C 5A (100W) Braided Sync & Fast Charging Cable, 3.9 Feet (1.2M). USB...	1999	4.2
	B09JPC82QC	Mi 108 cm (43 inches) Full HD Android LED TV 4C L43M6-INC (Black)	34999	4.3

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

FORMULA

```
69      # Find products where the discounted price ends with a 9
70  •  select
71      product_name,
72      discounted_price
73  from
74  mytable
75  where discounted_price like "%9%";
```



SOLUTION

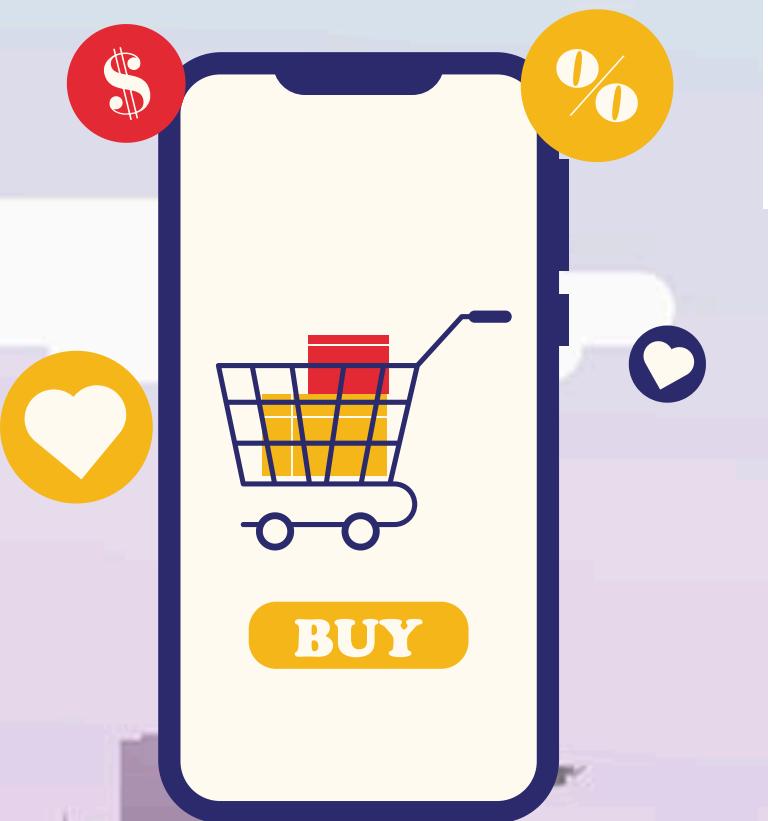
product_name	discounted_price
Wayona Nylon Braided USB to Lightning Fast Charging and Data Sync Cable Compatible for iPhone 13, 12, 11, X, 8, 7, 6, ...	399
Ambrane Unbreakable 60W / 3A Fast Charging 1.5m Braided Type C Cable for Smartphones, Tablets, Laptops, ...	199
Source Fast Phone Charging Cable & Data Sync USB Cable Compatible for iPhone 13, 12, 11, X, 8, 7, 6, ...	199
boAt Deuce USB 300 2 in 1 Type-C & Micro USB Stress Resistant, Tangle-Free, Sturdy Cable with 3A Fast Charge	329
pTron Solero TB301 3A Type-C Data and Fast Charging Cable, Made in India, 480Mbps Data Sync, Strong Durability	149
MI Usb Type-C Cable Smartphone (Black)	229
TP-Link USB WiFi Adapter for PC(TL-WN725N), N150 Wireless Network Adapter for Desktop - Nano Size	499
Ambrane Unbreakable 60W / 3A Fast Charging 1.5m Braided Micro USB Cable for Smartphones, Tablets, ...	199
boAt Rugged v3 Extra Tough Unbreakable Braided Micro USB Cable 1.5 Meter (Black)	299
AmazonBasics Flexible Premium HDMI Cable (Black, 4K@60Hz, 18Gbps), 3-Foot	219
Portronics Konnect L 1.2M POR-1401 Fast Charging 3A 8 Pin USB Cable with Charge & Sync Function (White)	159
MI Braided USB Type-C Cable for Charging Adapter (Red)	349
MT 80 cm (32 inches) 5A Series HD Ready Smart Android LED TV 32M7-5ATN (Black)	1,3999



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

FORMULA

```
77  # Display review contents that contains words like worst, waste, poor, or not good.  
78 • select  
79  review_content  
80  from  
81  mytable  
82  where  
83  review_content like "%worst%"  
84  or review_content like "%waste%"  
85  or review_content like "%poor%"  
86  or review_content like "%not good%";
```



SOLUTION

review_content

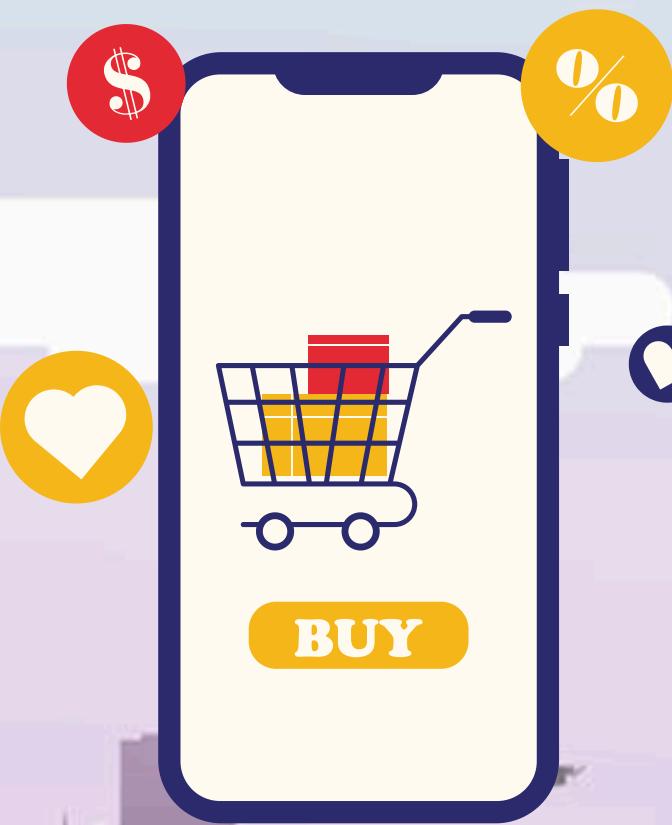
Worth for money - suitable for Android auto... my purpose served in car....got it for Rs. 150,Everything is Okay. But packaging is ...
Check for offera before buying, 18w charging cable,,Awesome cable!Charging, data transfer and durability is simply awesome, and...
LG was always Good , correct delivery, good service but sound quality was poor. The speakers were fitted below the tv. No clear s...
This connector has provided as a boon for my old Samsung LCD monitor and I am proactively using that monitor as the 2nd screen ...
Overall good.,TV picture ok smart betterSound very low another brand,Service provider refuse install my TV, bad service and sams...
About the TV - Wonderful----- Probably the best TV in this price range (INR 13000)....
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:...
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 c...
I am posting this after a few weeks of using the product.Usage: Continuous, OTT only, no Cable/Dish operator.Average daily usag...
NOTE:@ If you select brand-authorized TV installation, then DO NOT unbox the tv until MI representative arrives.This ensures, th...
Overall replacement of original samsung remote.its compatible easily with my samsung uhd tv.but there is no voice command in the...
I am using this on an old Mac Mini, since the Broadcom proprietary drivers aren't available and the replacement B43 drivers don't all...
I got this for 6k. At this price point, I believe the TV provides decent quality. You shouldn't expect amazing quality anyway from a ...



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

FORMULA

```
88     # List all products where the category includes "Accessories."  
89 • select  
90   product_id,  
91   product_name,  
92   category  
93   from  
94   mytable  
95   where category like "%Accessories%";
```



SOLUTION

product_id	product_name	category
B07JW9H4J1	Wayona Nylon Braided USB to Lightning Fast Charging and Data Sync Cable Compatible for iPhone 13, 12, 11, X, 8, 7, 6, ...	Computers&Accessories Accessories&Periphera
B098NS6PVG	Ambrane Unbreakable 60W / 3A Fast Charging 1.5m Braided Type C Cable for Smartphones, Tablets, Laptops, ...	Computers&Accessories Accessories&Periphera
B096MSW6CT	Source Fast Phone Charging Cable & Data Sync USB Cable Compatible for iPhone 13, 12, 11, X, 8, 7, 6, ...	Computers&Accessories Accessories&Periphera
B08HDJ86NZ	boAt Deuce USB 300 2 in 1 Type-C & Micro USB Stress Resistant, Tangle-Free, Sturdy Cable with 3A Fast...	Computers&Accessories Accessories&Periphera
B08CF3B7N1	Portronics Konnect L 1.2M Fast Charging 3A 8 Pin USB Cable with Charge & Sync Function for iPhone, iP...	Computers&Accessories Accessories&Periphera
B08Y1TFSP6	pTron Solero TB301 3A Type-C Data and Fast Charging Cable, Made in India, 480Mbps Data Sync, Strong ...	Computers&Accessories Accessories&Periphera
B08WRWPM22	boAt Micro USB 55 Tangle-free, Sturdy Micro USB Cable with 3A Fast Charging & 480mbps Data Transmis...	Computers&Accessories Accessories&Periphera
B08DDRGWTJ	MI Usb Type-C Cable Smartphone (Black)	Computers&Accessories Accessories&Periphera
B008IFXQFU	TP-Link USB WiFi Adapter for PC(TL-WN725N), N150 Wireless Network Adapter for Desktop - Nano Size ...	Computers&Accessories NetworkingDevices Ne
B082LZGK39	Ambrane Unbreakable 60W / 3A Fast Charging 1.5m Braided Micro USB Cable for Smartphones, Tablets, ...	Computers&Accessories Accessories&Periphera
B08CF3D7QR	Portronics Konnect L POR-1081 Fast Charging 3A Type-C Cable 1.2Meter with Charge & Sync Function f...	Computers&Accessories Accessories&Periphera
B0789LZTCJ	boAt Rugged v3 Extra Tough Unbreakable Braided Micro USB Cable 1.5 Meter (Black)	Computers&Accessories Accessories&Periphera
B07KSMBL2H	AmazonBasics Flexible Premium HDMI Cable (Black, 4K@60Hz, 18Gbps), 3-Foot	Electronics HomeTheater.TV&Video Accessorie



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