



Amazon SALES REPORT

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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 the dataset by filtering, comparing, and identifying specific product 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 performance.



Problems Statements

1. List all products with a discounted price below ₹500.
2. Find products with a discount percentage of 50% or more.
3. Retrieve all products where the name contains the word "Cable."
4. Display the difference between the average of the actual price and the average of discounted price for each product.
5. Query reviews that mention "fast charging" in their content.
6. Identify products with a discount percentage between 20% and 40%.
7. Find products that have an actual price above ₹1,000 and are rated 4 stars or above.
8. Find products where the discounted price ends with a 9 ?
9. Display review contents that contains words like worst, waste, poor, or not good.
10. List all products where the category includes "Accessories."

About Dataset

COLUMN_NAME
about_product
actual_price
category
discount_percentage
discounted_price
img_link
product_id
product_link
product_name
rating
rating_count
review_content
review_id
review_title
user_id
user_name

Columns present in "mytable" table

There are 1465 number of rows present in dataset.

column_count
16

Total number of columns available in "mytable" table

1

List all products with a discounted price below ₹500.

```
SELECT
    product_name, discounted_price
FROM
    mytable
WHERE
    discounted_price < 500;
```

There are 576 products
whose discounted price was
below ₹500 .

QUERY OUTPUT

	product_name	discounted_price
▶	Wayona Nylon Braided USB to Lightning ...	399
	Ambrane Unbreakable 60W / 3A Fast C...	199
	Sounce Fast Phone Charging Cable & D...	199
	boAt Deuce USB 300 2 in 1 Type-C & Mi...	329
	Portronics Konnect L 1.2M Fast Chargin...	154
	pTron Solero TB301 3A Type-C Data an...	149
	boAt Micro USB 55 Tangle-free, Sturdy ...	176.63
	MI Usb Type-C Cable Smartphone (Black)	229
	TP-Link USB WiFi Adapter for PC(TL-WN...	499
	Ambrane Unbreakable 60W / 3A Fast C...	199

mytable 39 ×

2

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

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

There are 751 number of products whose discount percentage is equal to or more than 50%.

QUERY OUTPUT

product_name	discount_percentage
Wayona Nylon Braided USB to Lightning ...	0.64
Sounce Fast Phone Charging Cable & D...	0.9
boAt Deuce USB 300 2 in 1 Type-C & Mi...	0.53
Portronics Konnect L 1.2M Fast Chargin...	0.61
pTron Solero TB301 3A Type-C Data an...	0.85
boAt Micro USB 55 Tangle-free, Sturdy ...	0.65
TP-Link USB WiFi Adapter for PC(TL-WN...	0.5
Portronics Konnect L POR-1081 Fast Ch...	0.55
boAt Rugged v3 Extra Tough Unbreakab...	0.63
AmazonBasics Flexible Premium HDMI C...	0.69

mytable 41 x

3

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

```
SELECT
    product_name
FROM
    mytable
WHERE
    product_name LIKE '%Cable%';
```

There are 304 number of products whose name contains word "Cable" in product name .

QUERY OUTPUT


product_name
Wayona Nylon Braided USB to Lightning Fast Charging and Data Sync Cable Compatible for iP...
Ambrane Unbreakable 60W / 3A Fast Charging 1.5m Braided Type C Cable for Smartphones,...
Source Fast Phone Charging Cable & Data Sync USB Cable Compatible for iPhone 13, 12,11, ...
boAt Deuce USB 300 2 in 1 Type-C & Micro USB Stress Resistant, Tangle-Free, Sturdy Cable ...
Portronics Konnect L 1.2M Fast Charging 3A 8 Pin USB Cable with Charge & Sync Function for...
pTron Solero TB301 3A Type-C Data and Fast Charging Cable, Made in India, 480Mbps Data ...
boAt Micro USB 55 Tangle-free, Sturdy Micro USB Cable with 3A Fast Charging & 480mbps D...
MI Usb Type-C Cable Smartphone (Black)
Ambrane Unbreakable 60W / 3A Fast Charging 1.5m Braided Micro USB Cable for Smartphon...
Portronics Konnect L POR-1081 Fast Charging 3A Type-C Cable 1.2Meter with Charge & Sync...

4

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

```
SELECT
    product_name,
    AVG(actual_price),
    AVG(discounted_price),
    (AVG(actual_price) - AVG(discounted_price)) AS 'Avg. Diff'
FROM
    mytable
GROUP BY product_name;
```

QUERY OUTPUT



	product_name	AVG(actual_price)	AVG(discounted_price)	Avg. Diff
▶	Wayona Nylon Braided USB to Lightning ...	1099	399	700
	Ambrane Unbreakable 60W / 3A Fast C...	349	199	150
	Sounce Fast Phone Charging Cable & D...	1299	199	1100
	boAt Deuce USB 300 2 in 1 Type-C & Mi...	699	329	370
	Portronics Konnect L 1.2M Fast Chargin...	399	154	245
	pTron Solero TB301 3A Type-C Data an...	1000	149	851
	boAt Micro USB 55 Tangle-free, Sturdy ...	499	176.63	322.37
	MI Usb Type-C Cable Smartphone (Black)	299	229	70
	TP-Link USB WiFi Adapter for PC(TL-WN...	999	499	500
	Ambrane Unbreakable 60W / 3A Fast C...	299	199	100
	Portronics Konnect L POR-1081 Fast Ch...	339	154	185
	boAt Rugged v3 Extra Tough Unbreakab...	799	299	500
	AmazonBasics Flexible Premium HDMI C...	700	219	481

Result 14 ×

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

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

There are 157 number of products which have word "fast charging" in review .

QUERY OUTPUT

product_name	review_content
Ambrane Unbreakable 60W / 3A Fast Charging 1.5m Braided Type C Cable for Smartphones,...	I ordered this cable to connect my phon...
boAt Deuce USB 300 2 in 1 Type-C & Micro USB Stress Resistant, Tangle-Free, Sturdy Cable ...	Good product,long wire,Charges good,N...
Ambrane Unbreakable 60W / 3A Fast Charging 1.5m Braided Micro USB Cable for Smartphon...	I ordered this cable to connect my phon...
Portronics Konnect L POR-1081 Fast Charging 3A Type-C Cable 1.2Meter with Charge & Sync...	The cable is efficient in fast charging bu...
boAt Rugged v3 Extra Tough Unbreakable Braided Micro USB Cable 1.5 Meter (Black)	Good product,long wire,Charges good,N...
Portronics Konnect CL 20W POR-1067 Type-C to 8 Pin USB 1.2M Cable with Power Delivery &...	Definitely isn't as good as the original co...
MI Braided USB Type-C Cable for Charging Adapter (Red)	I like it 🙏🙏,Best charging power . I use...
Ambrane Unbreakable 60W / 3A Fast Charging 1.5m Braided Type C to Type C Cable for Sm...	I ordered this cable to connect my phon...
boAt Type C A325 Tangle-free, Sturdy Type C Cable with 3A Rapid Charging & 480mbps Dat...	Check for offera before buying,18w cha...
Flix Micro Usb Cable For Smartphone (Black)	Worked on iPhone 7 and didn't work on ...

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6

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

```
SELECT
    product_name, discount_percentage
FROM
    mytable
WHERE
    discount_percentage BETWEEN 0.20 AND 0.40;
```

There are 352 number of products
whose discounted percentage is
between 20% and 40% .

QUERY OUTPUT

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 Smartphon...	0.33
Ambrane Unbreakable 60W / 3A Fast Charging 1.5m Braided Type C to Type C Cable for Sm...	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 ...	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 Net...	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

7

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;
```

There are 709 number of products whose actual price is more then ₹1,000 and rating is equal to or more than 4 .

QUERY OUTPUT

	product_name	actual_price	rating
▶	Wayona Nylon Braided USB to Lightning Fast Charging and Data Sync Cable Compatible for iP...	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 A...	1799	4.5
	Samsung 80 cm (32 Inches) Wondertainment Series HD Ready LED Smart TV UA32T4340BK...	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, I...	1999	4.4
	Zoul USB C 60W Fast Charging 3A 6ft/2M Long Type C Nylon Braided Data Cable Quick Charg...	1099	4.3
	Amazonbasics Nylon Braided Usb-C To Lightning Cable, Fast Charging Mfi Certified Smartpho...	1900	4.4

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8

Find products where the discounted price ends with a 9 ?

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

There are 1054 number of products
where discounted price ends with
"9" .

QUERY OUTPUT

	product_name	discounted_price
▶	Wayona Nylon Braided USB to Lightning Fast Charging and Data Sync Cable Compatible for iP...	399
	Ambrane Unbreakable 60W / 3A Fast Charging 1.5m Braided Type C Cable for Smartphones,...	199
	Source Fast Phone Charging Cable & Data Sync USB Cable Compatible for iPhone 13, 12,11, ...	199
	boAt Deuce USB 300 2 in 1 Type-C & Micro USB Stress Resistant, Tangle-Free, Sturdy Cable ...	329
	pTron Solero TB301 3A Type-C Data and Fast Charging Cable, Made in India, 480Mbps Data ...	149
	MI Usb Type-C Cable Smartphone (Black)	229
	TP-Link USB WiFi Adapter for PC(TL-WN725N), N150 Wireless Network Adapter for Desktop -...	499
	Ambrane Unbreakable 60W / 3A Fast Charging 1.5m Braided Micro USB Cable for Smartphon...	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

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

```
SELECT
    product_name,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%';
```

There are 293 number of products whose review contains the following words "worst", "waste", "poor" and "not good" .

QUERY OUTPUT

product_name	review_content
MI Usb Type-C Cable Smartphone (Black)	Worth for money - suitable for Android ...
boAt Type C A325 Tangle-free, Sturdy Type C Cable with 3A Rapid Charging & 480mbps Dat...	Check for offera before buying,18w cha...
LG 80 cm (32 inches) HD Ready Smart LED TV 32LM563BPTC (Dark Iron Gray)	LG was always Good , correct delivery, ...
tizum HDMI to VGA Adapter Cable 1080P for Projector, Computer, Laptop, TV, Projectors & TV	This connector has provided as a boon f...
Samsung 80 cm (32 Inches) Wondertainment Series HD Ready LED Smart TV UA32T4340BK...	Overall good.,TV picture ok smart bette...
Acer 80 cm (32 inches) I Series HD Ready Android Smart LED TV AR32AR2841HDFL (Black)	About the TV - Wonderful-----...
OnePlus 80 cm (32 inches) Y Series HD Ready LED Smart Android TV 32Y1 (Black)	This OnePlus TV is great if you want a a...
Samsung Original Type C to C Cable - 3.28 Feet (1 Meter), White	Buy it,Received in good condition and is ...
OnePlus 126 cm (50 inches) Y Series 4K Ultra HD Smart Android LED TV 50Y1S Pro (Black)	I am posting this after a few weeks of u...
Mi 108 cm (43 inches) Full HD Android LED TV 4C L43M6-INC (Black)	NOTE:@ If you select brand-authorized ...

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Output

10

List all products where the category includes "Accessories".

```
SELECT
    product_name, category
FROM
    mytable
WHERE
    category LIKE '%Accessories%';
```

There are 890 products which have word "Accessories" in there category .

QUERY OUTPUT

	product_name	category
▶	Wayona Nylon Braided USB to Lightning ...	Computers&Accessories Accessories&P...
	Ambrane Unbreakable 60W / 3A Fast C...	Computers&Accessories Accessories&P...
	Source Fast Phone Charging Cable & D...	Computers&Accessories Accessories&P...
	boAt Deuce USB 300 2 in 1 Type-C & Mi...	Computers&Accessories Accessories&P...
	Portronics Konnect L 1.2M Fast Chargin...	Computers&Accessories Accessories&P...
	pTron Solero TB301 3A Type-C Data an...	Computers&Accessories Accessories&P...
	boAt Micro USB 55 Tangle-free, Sturdy ...	Computers&Accessories Accessories&P...
	MI Usb Type-C Cable Smartphone (Black)	Computers&Accessories Accessories&P...
	TP-Link USB WiFi Adapter for PC(TL-WN...	Computers&Accessories NetworkingDev...
	Ambrane Unbreakable 60W / 3A Fast C...	Computers&Accessories Accessories&P...

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Thank You

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