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Sales data by performing different queries in sql.

Amazon is a global technology and e-commerce company founded by Jeff Bezos in 1994. Originally started as an online bookstore, it has since evolved into one of the world's largest online retailers and cloud computing providers. Headquartered in Seattle, Amazon offers a wide range of products and services, including electronics, apparel, groceries, and digital content. Its popular services include Amazon Prime, which provides fast delivery and streaming benefits, and Amazon Web Services (AWS), the leading cloud platform that supports businesses worldwide. Amazon is also known for its innovations in artificial intelligence, logistics, and smart devices like Alexa and Kindle. With a strong focus on customer satisfaction and technology-driven solutions, Amazon continues to reshape the way people shop, work, and live.

Analyzing sales data by performing different queries in sql.

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 average of 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."

Q1. List all products with a discounted price below ₹500.

```sql
# Amazon Case Study
select * from mytable;




#Q. 1 List all products with a discounted price below ₹500.
select product_name, discounted_price from mytable
where discounted_price < 500;

```

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

Q2. Find products with a discount percentage of 50% or more.

```
11
12
13      # Q.2 Find products with a discount percentage of 50% or more.
14
15  •   select product_name, discount_percentage from mytable
16      where discount_percentage >=0.50;
```

Result Grid | 🔢 | 🔀 Filter Rows: [   ] | Export: 🔡 | Wrap Cell Content: 🔡

product_name	discount_percentage
Wayona Nylon Braided USB to Lightning Fast Ch...	0.64
Sounce Fast Phone Charging Cable & Data Sync...	0.9
boAt Deuce USB 300 2 in 1 Type-C & Micro USB ...	0.53
Portronics Konnect L 1.2M Fast Charging 3A 8 P...	0.61
pTron Solero TB301 3A Type-C Data and Fast C...	0.85
boAt Micro USB 55 Tangle-free, Sturdy Micro US...	0.65
TP-Link USB WiFi Adapter for PC(TL-WN725N), ...	0.5
Portronics Konnect L POR-1081 Fast Charging 3...	0.55
boAt Rugged v3 Extra Tough Unbreakable Braid...	0.63
AmazonBasics Flexible Premium HDMI Cable (Bla...	0.69
Portronics Konnect CL 20W POR-1067 Type-C t...	0.61
Portronics Konnect L 1.2M POR-1401 Fast Char...	0.6
boAt Type C A325 Tangle-free, Sturdy Type C ...	0.6

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Q3. Retrieve all products where the name contains the word "Cable"

```
19
20      #Q. 3 Retrieve all products where the name contains the word "Cable".
21
22  •   select product_name from mytable
23      where product_name like '%cable%';
```

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

product_name
Wayona Nylon Braided USB to Lightning Fast Charging and Data Sync Cable Co...
Ambrane Unbreakable 60W / 3A Fast Charging 1.5m Braided Type C Cable for S...
Sounce Fast Phone Charging Cable & Data Sync USB Cable Compatible for iPhon...
boAt Deuce USB 300 2 in 1 Type-C & Micro USB Stress Resistant, Tangle-Free, S...
Portronics Konnect L 1.2M Fast Charging 3A 8 Pin USB Cable with Charge & Sync...
pTron Solero TB301 3A Type-C Data and Fast Charging Cable, Made in India, 48...
boAt Micro USB 55 Tangle-free, Sturdy Micro USB Cable with 3A Fast Charging &...
MI Usb Type-C Cable Smartphone (Black)
Ambrane Unbreakable 60W / 3A Fast Charging 1.5m Braided Micro USB Cable fo...
Portronics Konnect L POR-1081 Fast Charging 3A Type-C Cable 1.2Meter with C...
boAt Rugged v3 Extra Tough Unbreakable Braided Micro USB Cable 1.5 Meter (B...
AmazonBasics Flexible Premium HDMI Cable (Black, 4K@60Hz, 18Gbps), 3-Foot
Portronics Konnect CL 20W POR-1067 Type-C to 8 Pin USB 1.2M Cable with Pow...

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Q4. Display the difference between the average of the actual price and the average of discounted price for each product.

```sql
26
27     #Q. 4 Display the difference between the average of the actual price and the average of discounted price for each product.
28
29  •  select product_name,
30     AVG(actual_price),
31     AVG(discounted_price),
32     AVG(actual_price) - (AVG(discounted_price)) as 'Avg. Diff'
33     from mytable
34     group by product_name;
```

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

product_name	AVG(actual_price)	AVG(discounted_price)	Avg. Diff
Wayona Nylon Braided USB to Lightning Fast Charging and Data Sync Cable Co...	1099	399	700
Ambrane Unbreakable 60W / 3A Fast Charging 1.5m Braided Type C Cable for S...	349	199	150
Sounce Fast Phone Charging Cable & Data Sync USB Cable Compatible for iPhon...	1299	199	1100
boAt Deuce USB 300 2 in 1 Type-C & Micro USB Stress Resistant, Tangle-Free, S...	699	329	370
Portronics Konnect L 1.2M Fast Charging 3A 8 Pin USB Cable with Charge & Sync...	399	154	245
pTron Solero TB301 3A Type-C Data and Fast Charging Cable, Made in India, 48...	1000	149	851
boAt Micro USB 55 Tangle-free, Sturdy Micro USB Cable with 3A Fast Charging &...	499	176.63	322.37
MI Usb Type-C Cable Smartphone (Black)	299	229	70
TP-Link USB WiFi Adapter for PC(TL-WN725N), N150 Wireless Network Adapter f...	999	499	500
Ambrane Unbreakable 60W / 3A Fast Charging 1.5m Braided Micro USB Cable fo...	299	199	100
Portronics Konnect L POR-1081 Fast Charging 3A Type-C Cable 1.2Meter with C...	339	154	185
boAt Rugged v3 Extra Tough Unbreakable Braided Micro USB Cable 1.5 Meter (B...	799	299	500

Result 8 ×

Q5. Query reviews that mention "fast charging" in their content.

Q6. Identify products with a discount percentage between 20% and 40%.

```
48      #Q 6. dentify products with a discount percentage between 20% and 40%.
49
50  •   select product_name, discount_percentage
51      from mytable
52      where discount_percentage BETWEEN 0.20 AND 0.40;
```

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

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 fo...	0.33
Ambrane Unbreakable 60W / 3A Fast Charging 1.5m Braided Type C to Type C ...	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 Spea...	0.25
OnePlus 126 cm (50 inches) Y Series 4K Ultra HD Smart Android LED TV 50Y1S Pr...	0.28
TP-Link Nano AC600 USB Wi-Fi Adapter(Archer T2U Nano)- 2.4G/5G Dual Band ...	0.38
Amazon Basics High-Speed HDMI Cable, 6 Feet - Supports Ethernet, 3D, 4K vide...	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 UA43...	0.31
Redmi 108 cm (43 inches) 4K Ultra HD Android Smart LED TV X43	L43R7-7AIN (...	0.37

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Q7. Find products that have an actual price above ₹1,000 and are rated 4 stars or above.


```
58    #Q 7. Find products that have an actual price above ₹1,000 and are rated 4 stars or above.
59
60 •  select product_name, actual_price, rating from mytable
61    where actual_price > 1000 AND rating > 4;
```

esult Grid | 🔢 | 🔁 Filter Rows: | Export: 🗎 | Wrap Cell Content: 🗛

product_name	actual_price	rating
Wayona Nylon Braided USB to Lightning Fast Charging and Data Sync Cable Co...	1099	4.2
MI 80 cm (32 inches) 5A Series HD Ready Smart Android LED TV L32M7-5AIN (Bl...	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 Iph...	1799	4.5
Samsung 80 cm (32 Inches) Wondertainment Series HD Ready LED Smart TV UA...	22900	4.3
Acer 80 cm (32 inches) I Series HD Ready Android Smart LED TV AR32AR2841H...	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 F...	1999	4.4
Zoul USB C 60W Fast Charging 3A 6ft/2M Long Type C Nylon Braided Data Cable...	1099	4.3
Amazonbasics Nylon Braided Usb-C To Lightning Cable, Fast Charging Mfi Certifi...	1900	4.4
OnePlus 126 cm (50 inches) Y Series 4K Ultra HD Smart Android LED TV 50Y1S Pr...	45999	4.2
Duracell Type C To Type C 5A (100W) Braided Sync & Fast Charging Cable, 3.9 ...	1999	4.2

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Q8. Find products where the discounted price ends with a 9 ?

```
65      #Q 8. Find products where the discounted price ends with a 9 ?
66
67  •   select product_name, discounted_price from mytable
68      where discounted_price like '%9';
69
```

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

product_name	discounted_price
Wayona Nylon Braided USB to Lightning Fast Charging and Data Sync Cable Co...	399
Ambrane Unbreakable 60W / 3A Fast Charging 1.5m Braided Type C Cable for S...	199
Sounce Fast Phone Charging Cable & Data Sync USB Cable Compatible for iPhon...	199
boAt Deuce USB 300 2 in 1 Type-C & Micro USB Stress Resistant, Tangle-Free, S...	329
pTron Solero TB301 3A Type-C Data and Fast Charging Cable, Made in India, 48...	149
MI Usb Type-C Cable Smartphone (Black)	229
TP-Link USB WiFi Adapter for PC(TL-WN725N), N150 Wireless Network Adapter f...	499
Ambrane Unbreakable 60W / 3A Fast Charging 1.5m Braided Micro USB Cable fo...	199
boAt Rugged v3 Extra Tough Unbreakable Braided Micro USB Cable 1.5 Meter (B...	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 Cha...	159
MI Braided USB Type-C Cable for Charging Adapter (Red)	349

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Q9. Display review contents that contains words like worst, waste, poor, or not good.

```sql
#Q 9. 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%';
```

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

product_name	review_content
MI Usb Type-C Cable Smartphone (Black)	Worth for money - suitable for Andr…
boAt Type C A325 Tangle-free, Sturdy Type C Cable with 3A Rapid Charging & …	Check for offera before buying,18w …
LG 80 cm (32 inches) HD Ready Smart LED TV 32LM563BPTC (Dark Iron Gray)	LG was always Good , correct deliver…
tizum HDMI to VGA Adapter Cable 1080P for Projector, Computer, Laptop, TV, P…	This connector has provided as a bo…
Samsung 80 cm (32 Inches) Wondertainment Series HD Ready LED Smart TV UA…	Overall good.,TV picture ok smart be…
Acer 80 cm (32 inches) I Series HD Ready Android Smart LED TV AR32AR2841H…	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 …
Samsung Original Type C to C Cable - 3.28 Feet (1 Meter), White	Buy it,Received in good condition an…
OnePlus 126 cm (50 inches) Y Series 4K Ultra HD Smart Android LED TV 50Y1S Pr…	I am posting this after a few weeks …
Mi 108 cm (43 inches) Full HD Android LED TV 4C	L43M6-INC (Black)	NOTE:@ If you select brand-authori…
7SEVEN® Compatible for Samsung Smart 4K Ultra HD TV Monitor Remote Contro…	Overall replacement of original sams…
TP-Link AC600 600 Mbps WiFi Wireless Network USB Adapter for Desktop PC wit…	I am using this on an old Mac Mini, si…

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Q10. List all products where the category includes "Accessories."

```
84      #Q 10. List all products where the category includes "Accessories."
85
86 •    select product_name, category from mytable
87      where category LIKE '%Accessories%';
```

Result Grid | ▦ | ⟳ Filter Rows: [   ] | Export: ▦ | Wrap Cell Content: ⫶A

product_name	category
Wayona Nylon Braided USB to Lightning Fast Charging and Data Sync Cable Co...	Computers&Accessories|Accessories&Peripheral...
Ambrane Unbreakable 60W / 3A Fast Charging 1.5m Braided Type C Cable for S...	Computers&Accessories|Accessories&Peripheral...
Sounce Fast Phone Charging Cable & Data Sync USB Cable Compatible for iPhon...	Computers&Accessories|Accessories&Peripheral...
boAt Deuce USB 300 2 in 1 Type-C & Micro USB Stress Resistant, Tangle-Free, S...	Computers&Accessories|Accessories&Peripheral...
Portronics Konnect L 1.2M Fast Charging 3A 8 Pin USB Cable with Charge & Sync...	Computers&Accessories|Accessories&Peripheral...
pTron Solero TB301 3A Type-C Data and Fast Charging Cable, Made in India, 48...	Computers&Accessories|Accessories&Peripheral...
boAt Micro USB 55 Tangle-free, Sturdy Micro USB Cable with 3A Fast Charging &...	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 f...	Computers&Accessories|NetworkingDevices|Ne...
Ambrane Unbreakable 60W / 3A Fast Charging 1.5m Braided Micro USB Cable fo...	Computers&Accessories|Accessories&Peripheral...
Portronics Konnect L POR-1081 Fast Charging 3A Type-C Cable 1.2Meter with C...	Computers&Accessories|Accessories&Peripheral...
boAt Rugged v3 Extra Tough Unbreakable Braided Micro USB Cable 1.5 Meter (B...	Computers&Accessories|Accessories&Peripheral...

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Thank you