

amazon

Anything's Possible

Analysing Amazon Data

using SQL query

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W W W A M A Z O N S H O P P I N G



About Company

Amazon.com is a Seattle , Washington–based e-commerce and cloud computing giant whose humble beginnings can be traced to founder Jeff Bezos’s garage, where he began selling books on the still-emerging World Wide Web. Although the company is best known among consumers for its retail platform, a majority of its operating profits (come from its cloud computing division, Amazon Web Services (AWS). Amazon is also emerging as a leader in generative artificial intelligence (GenAI) with its Bedrock platform. On the media side, Amazon is in the thick of the so-called “streaming wars,” with its Prime Video entertainment and sports subscription model—including original content—battling for share of viewers.



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Project Description

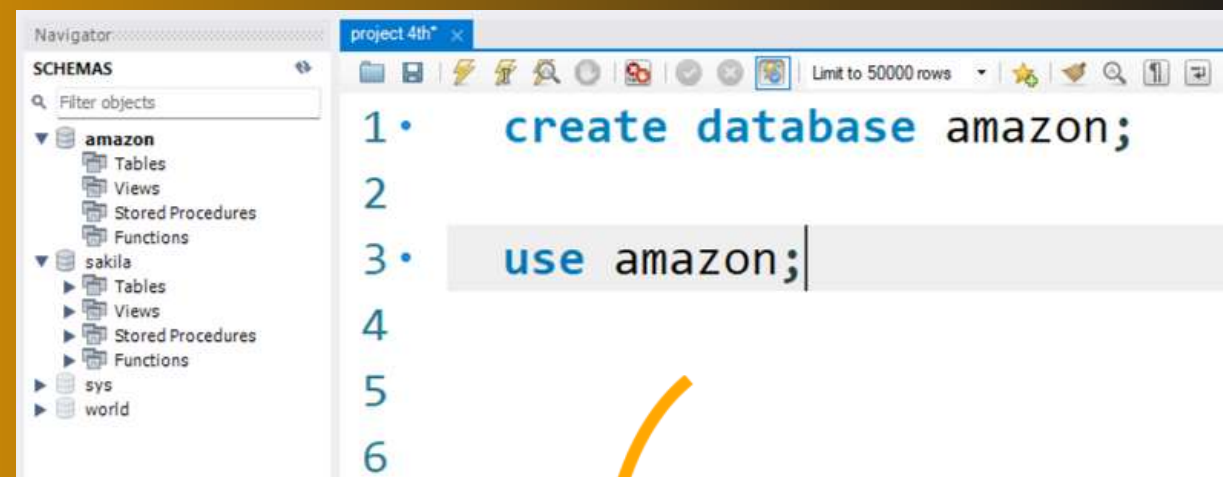
You are working at Amazon, a leading e-commerce platform. The management has tasked you with analyzing sales data by performing different queries in sql.



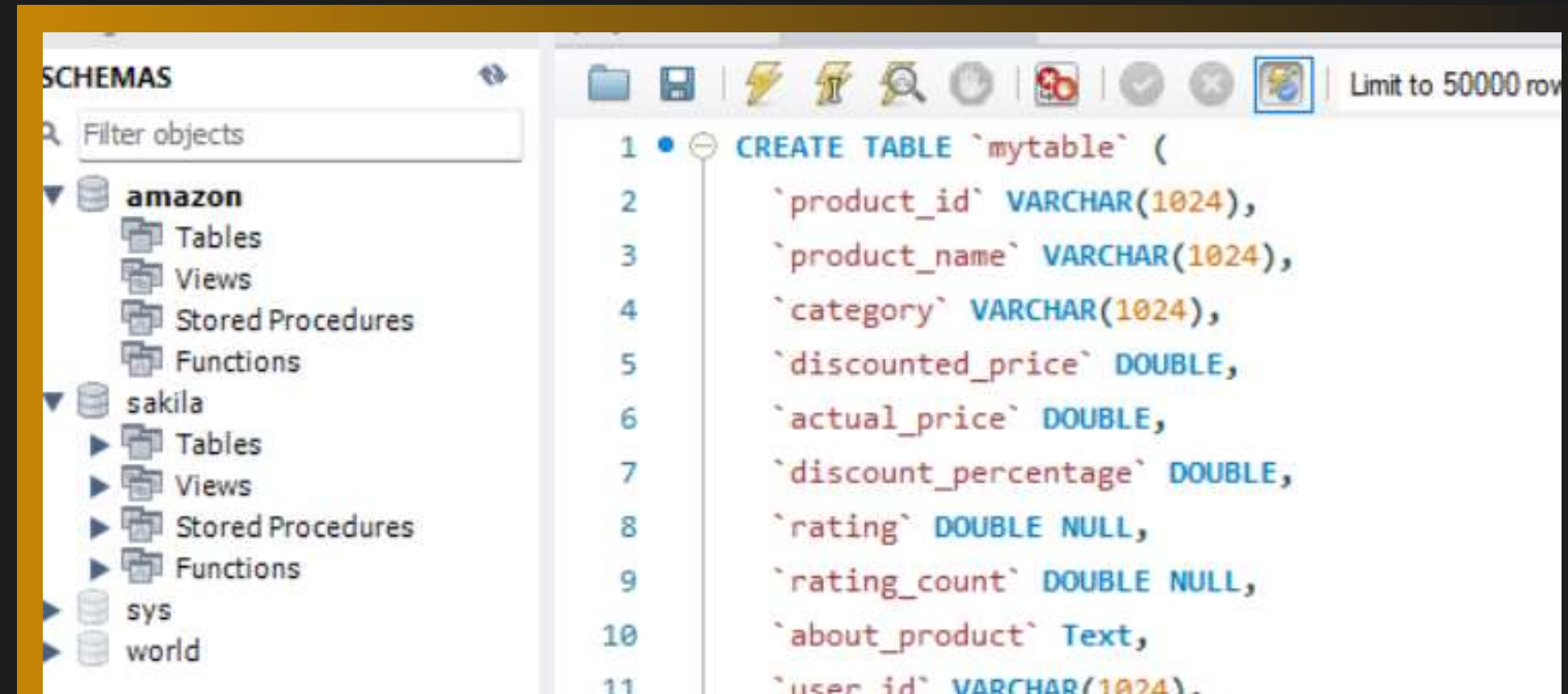
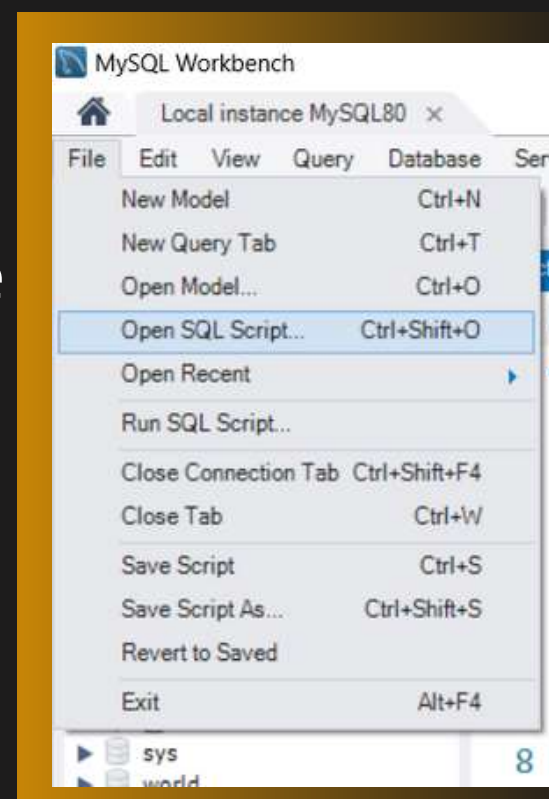


STEPS FOR CREATING DATABASE

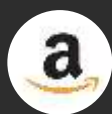
In Workbench ,create a new database named “amazon” and then use it by writing query “use amazon”



As we see that table is empty so we have to create data bt click on “ file” and selecting “Open SQLscript “ now select the data set to import



After uploading the data set we have to run the query to get access of the amazon data.



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

```
SELECT
    product_id, product_name, Discounted_price
FROM
    mytable
WHERE
    Discounted_price < 500;
```

Query

	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 USB ...	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
	B08PDP6WT1	MI USB Type-C Cable Smartphone (Black)	229

Outcome

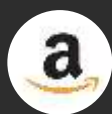
2. Find products with a discount percentage of 50% or more.

```
SELECT
    product_id, product_name, Discount_percentage
FROM
    mytable
WHERE
    Discount_percentage >= 0.50;
```

Query

	product_id	product_name	Discount_percentage
▶	B07JW9H4J1	Wayona Nylon Braided USB to Lightning Fast Ch...	0.64
	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
	B008IFXQFU	TP-Link USB WiFi Adapter for PC(TL-WN725N), ...	0.5
	B08CF3D7QR	Portronics Konnect L POR-1081 Fast Charging 3...	0.55

Outcome



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

```
1 • SELECT
2     product_id, product_name
3 FROM
4     mytable
5 WHERE
6     product_name like "%Cable%";
```

Query

	product_id	product_name
▶	B07JW9H4J1	Wayona Nylon Braided USB to Lightning Fast Ch...
	B098NS6PVG	Ambrane Unbreakable 60W / 3A Fast Charging ...
	B096MSW6CT	Source Fast Phone Charging Cable & Data Sync...
	B08HDJ86NZ	boAt Deuce USB 300 2 in 1 Type-C & Micro USB ...
	B08CF3B7N1	Portronics Konnect L 1.2M Fast Charging 3A 8 P...
	B08Y1TFSP6	pTron Solero TB301 3A Type-C Data and Fast C...
	B08WRWPM22	boAt Micro USB 55 Tangle-free, Sturdy Micro US...
	B08DDRGWTJ	MI Usb Type-C Cable Smartphone (Black)

Outcome

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

```
SELECT
    product_id,
    actual_price,
    discounted_price,
    category,
    AVG(actual_price) - AVG(discounted_price) AS avg_price_category
FROM
    mytable
GROUP BY product_id , actual_price , discounted_price , category;
```

Query

product_id	actual_price	discounted_price	category	avg_price_category
B07JW9H4J1	1099	399	Computers&Accessories Accessories&Peripheral...	700
B098NS6PVG	349	199	Computers&Accessories Accessories&Peripheral...	150
B096MSW6CT	1899	199	Computers&Accessories Accessories&Peripheral...	1700
B08HDJ86NZ	699	329	Computers&Accessories Accessories&Peripheral...	370
B08CF3B7N1	399	154	Computers&Accessories Accessories&Peripheral...	245
B08Y1TFSP6	1000	149	Computers&Accessories Accessories&Peripheral...	851
B08WRWPM22	499	176.63	Computers&Accessories Accessories&Peripheral...	322.37
B08DDRGWTJ	299	229	Computers&Accessories Accessories&Peripheral...	70

Outcome



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

```
1 • SELECT
2     review_id, review_content
3 FROM
4     mytable
5 WHERE
6     review_content LIKE '%fast charging%';
```

Query

review_id	review_content
RGIQEG07R9HS2,R1SMWZQ86XIN8U,R2J3Y1W...	I ordered this cable to connect my phone to An...
R3EEUZKKK9J36I,R3HJVYCLYOY554,REDECAZ7...	Good product,long wire,Charges good,Nice,I bo...
RGIQEG07R9HS2,R1SMWZQ86XIN8U,R2J3Y1W...	I ordered this cable to connect my phone to An...
R11MQS7WD9C3I0,R2AKH69XQY8BY4,R8GBOL...	The cable is efficient in fast charging but in quic...
R3EEUZKKK9J36I,R3HJVYCLYOY554,REDECAZ7...	Good product,long wire,Charges good,Nice,I bo...
R1QETDIPRCX4S0,RARQYQ8POOFA9,R952F93...	Definitely isn't as good as the original cord but ...
R2JPQNKCOE10UK,RQI80JG2WZXNF,R2LYZ4C...	I like it 🍌🍌,Best charging power . I used this c...
RGIQEG07R9HS2,R1SMWZQ86XIN8U,R2J3Y1W...	I ordered this cable to connect my phone to An...

Outcome

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

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

Query

product_id	product_name	discount_percentage
B08DDRGWTJ	MI USB Type-C Cable Smartphone (Black)	0.23
B082LZGK39	Ambrane Unbreakable 60W / 3A Fast Charging ...	0.33
B082LSVT4B	Ambrane Unbreakable 60W / 3A Fast Charging ...	0.38
B08DPLCM6T	LG 80 cm (32 inches) HD Ready Smart LED TV 3...	0.39
B08B42LWKN	OnePlus 80 cm (32 inches) Y Series HD Ready L...	0.25
B094JNXNPV	Ambrane Unbreakable 3 in 1 Fast Charging Brai...	0.25
B083MMYHYW	OnePlus 126 cm (50 inches) Y Series 4K Ultra H...	0.28
B07KRCW6LZ	TP-Link Nano AC600 USB Wi-Fi Adapter(Archer ...	0.38

Outcome



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

```
1 • SELECT
2     product_id, product_name, actual_price, rating
3 FROM
4     mytable
5 WHERE
6     actual_price > 1000 and rating >= 4;
```

Query

	product_id	product_name	actual_price	rating
▶	B07JW9H4J1	Wayona Nylon Braided USB to Lightning Fast Ch...	1099	4.2
	B0B6F7LX4C	MI 80 cm (32 inches) 5A Series HD Ready Smart...	24999	4.2
	B08DPLCM6T	LG 80 cm (32 inches) HD Ready Smart LED TV 3...	21990	4.3
	B09C6HXFC1	Duracell USB Lightning Apple Certified (Mfi) Brai...	1799	4.5
	B09F6S8BT6	Samsung 80 cm (32 Inches) Wondertainment Se...	22900	4.3
	B0B1YVCJ2Y	Acer 80 cm (32 inches) I Series HD Ready Andr...	19990	4.3
	B08B42LWKN	OnePlus 80 cm (32 inches) Y Series HD Ready L...	19999	4.2
	B09W5XR9RT	Duracell USB C To Lightning Apple Certified (Mfi)...	1999	4.4

Outcome

8. Find products where the discounted price ends with a 9.

```
1 • SELECT
2     product_id, product_name, discounted_price
3 FROM
4     mytable
5 WHERE
6     discounted_price like "%9";
7
```

Query

	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 USB ...	329
	B08Y1TFSP6	pTron Solero TB301 3A Type-C Data and Fast C...	149
	B08DDRGWTJ	MI Usb Type-C Cable Smartphone (Black)	229
	B008IFXQFU	TP-Link USB WiFi Adapter for PC(TL-WN725N), ...	499
	B082LZGK: B082LZGK39	Unbreakable 60W / 3A Fast Charging ...	199

Outcome



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

```
1 • SELECT
2     review_id, review_content
3 FROM
4     mytable
5 WHERE
6     review_content LIKE '%worst%'
7     OR review_content LIKE '%waste%'
8     OR review_content LIKE '%poor%'
9     OR review_content LIKE '%not good%';
```

Query

review_id	review_content
R.2X090D1YHACKR,R.32ZCIH9AFNJ60,R.3N57EV...	Worth for money - suitable for Android auto... ..
R.2BP8Y5OJXKJLF,R.218813TNRHNSY,R.3VIKEVJ...	Check for offera before buying, 18w charging c...
R.2PNR69G0BQG2F,R.31A0WWDEYMKEW,R.2C4...	LG was always Good , correct delivery, good se...
R.1GYK05NN6747O,R.1J21BZ29NGQF9,R.16JCHE...	This connector has provided as a boon for my ol...
R.1SN0D4DFBKAZI,R.1SX5L77L2CD6V,R.1NAZ6M...	Overall good.,TV picture ok smart betterSound ...
R.1EBS3566VCSCG,R.24MB66WRPSN2A,R.25UU2...	About the TV - Wonderful-----...
R.3COVVOP2R.7Z28,R.2T6WHEO2ONNDD,RUFFV...	This OnePlus TV is great if you want a affordabl...
R.2Z9ENI1BK4EAB,R.2JTBG4GO7WPMG,R.3GKCN...	Buy it,Received in good condition and is working...

Outcome

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

```
1 • SELECT
2     product_id, product_name, category
3 FROM
4     mytable
5 WHERE
6     category LIKE '%Accessories%';
```

Query

product_id	product_name	category
B07JW9H4J1	Wayona Nylon Braided USB to Lightning Fast Ch...	Computers&Accessories Accessories&Peripheral...
B098NS6PVG	Ambrane Unbreakable 60W / 3A Fast Charging ...	Computers&Accessories Accessories&Peripheral...
B096MSW6CT	Sounce Fast Phone Charging Cable & Data Sync...	Computers&Accessories Accessories&Peripheral...
B08HDJ86NZ	boAt Deuce USB 300 2 in 1 Type-C & Micro USB ...	Computers&Accessories Accessories&Peripheral...
B08CF3B7N1	Portronics Konnect L 1.2M Fast Charging 3A 8 P...	Computers&Accessories Accessories&Peripheral...
B08Y1TFSP6	pTron Solero TB301 3A Type-C Data and Fast C...	Computers&Accessories Accessories&Peripheral...
B08WRWPM22	boAt Micro USB 55 Tangle-free, Sturdy Micro US...	Computers&Accessories Accessories&Peripheral...
B08DDRGWTJ	MI Usb Type-C Cable Smartphone (Black)	Computers&Accessories Accessories&Peripheral...

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