



amazon

Amazon SQL Case Study – Key Sections

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Project Overview

Objective & Dataset Introduction

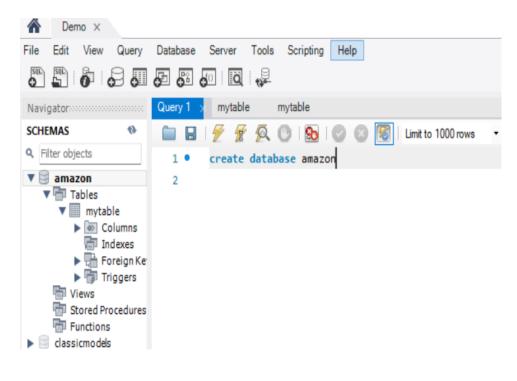
Through structured queries, we aim to analyze product pricing, discount patterns, customer reviews, and category-level trends to support data-driven decision-making for marketing, sales, and product strategy optimization.

Dataset Introduction

Amazon SQL Dataset

1. Create a Data Base

Create database amazon;





List all products with a discounted price below ₹500.



SELECT * FROM amazon.mytable WHERE discounted_price < 500;

	product_id	product_name	category	discounted_price	actual_price	discount_percentage	rating	rating_count	abou
٠	B07JW9H4J1	Wayona Nylon Braided USB to Lightning Fast Ch	Computers&Accessories Accessories&Peripheral	399	1099	0.64	4.2	24269	High (
	B098NS6PVG	Ambrane Unbreakable 60W / 3A Fast Charging	Computers&Accessories Accessories&Peripheral	199	349	0.43	4	43994	Comp
	B096MSW6CT	Sounce Fast Phone Charging Cable & Data Sync	Computers&Accessories Accessories&Peripheral	199	1899	0.9	3.9	7928	[Fas
	B08HDJ86NZ	boAt Deuce USB 300 2 in 1 Type-C & Micro USB	Computers&Accessories Accessories&Peripheral	329	699	0.53	4.2	94363	The b
	B08CF3B7N1	Portronics Konnect L 1.2M Fast Charging 3A 8 P	Computers&Accessories Accessories&Peripheral	154	399	0.61	4.2	16905	[CHAF
	B08Y1TFSP6	pTron Solero TB301 3A Type-C Data and Fast C	Computers&Accessories Accessories&Peripheral	149	1000	0.85	3.9	24871	Fast (
	B08WRWPM22	boAt Micro USB 55 Tangle-free, Sturdy Micro US	Computers&Accessories Accessories&Peripheral	176.63	499	0.65	4.1	15188	It Ens
	B08DDRGWTJ	MI Usb Type-C Cable Smartphone (Black)	Computers&Accessories Accessories&Peripheral	229	299	0.23	4.3	30411	1m lor
	DOGGTEVOELL	TO 1:-1.1100 MIC: A J1- E- DOCT MINITORN	C	400	000	0.5	4.7	170001	I ICD II

Objective:- Analyze how lower-priced items perform in terms of sales and reviews



Find products with a discount percentage of 50% or more

SELECT product_id, product_name, discounted_price,
actual_price, discount_percentage FROM amazon.mytable
WHERE discount_percentage >= 0.50;

product_id	product_name	discounted_price	actual_price	discount_percentage
B07JW9H4J1	Wayona Nylon Braided USB to Lightning Fast Ch	399	1099	0.64
B096MSW6CT	Sounce Fast Phone Charging Cable & Data Sync	199	1899	0.9
B08HDJ86NZ	boAt Deuce USB 300 2 in 1 Type-C & Micro USB	329	699	0.53
B08CF3B7N1	Portronics Konnect L 1.2M Fast Charging 3A 8 P	154	399	0.61
B08Y1TFSP6	pTron Solero TB301 3A Type-C Data and Fast C	149	1000	0.85
B08WRWPM22	boAt Micro USB 55 Tangle-free, Sturdy Micro US	176.63	499	0.65
B008IFXQFU	TP-Link USB WiFi Adapter for PC(TL-WN725N),	499	999	0.5
B08CF3D7QR	Portronics Konnect L POR-1081 Fast Charging 3	154	339	0.55
B0789LZTCJ	boAt Rugged v3 Extra Tough Unbreakable Braid	299	799	0.63
able 2 ×	American Planikla Describes I IDAM Cable /Ola	240	700	0.00

Objective:- Track high-discount product trends for promotional strategy Identify products that may be part of clearance sales or special offers



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

SELECT product_name, product_id FROM
amazon.mytable
WHERE product_name LIKE "%Cable%";

	product_name	product_id
٠	Wayona Nylon Braided USB to Lightning Fast Ch	B07JW9H4J1
	Ambrane Unbreakable 60W / 3A Fast Charging	B098NS6PVG
	Sounce Fast Phone Charging Cable & Data Sync	B096MSW6CT
	boAt Deuce USB 300 2 in 1 Type-C & Micro USB	B08HDJ86NZ
	Portronics Konnect L 1.2M Fast Charging 3A 8 P	B08CF3B7N1
	pTron Solero TB301 3A Type-C Data and Fast C	B08Y1TFSP6
	boAt Micro USB 55 Tangle-free, Sturdy Micro US	B08WRWPM22
	MI Usb Type-C Cable Smartphone (Black)	B08DDRGWTJ
	Ambrane Unbreakable 60W / 3A Fast Charging	B082LZGK39
my	/table 3 ×	0000000000



Objective: Study the performance of cable products in terms of price, discount, and customer feedback



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

select product_id, product_name

avg(actual_price) as avg_actual_price,

avg(discounted_price) as avg_discounted_price,

avg

as price_differnce

from amazon.mytable

group by product_id , product_name

	product_name	product_id	avg_actual_price	avg_discounted_price	price_differnce
,	Wayona Nylon Braided USB to Lightning Fast Ch	B07JW9H4J1	1099	399	700
	Ambrane Unbreakable 60W / 3A Fast Charging	B098NS6PVG	349	199	150
	Sounce Fast Phone Charging Cable & Data Sync	B096MSW6CT	1299	199	1100
	boAt Deuce USB 300 2 in 1 Type-C & Micro USB	B08HDJ86NZ	699	329	370
	Portronics Konnect L 1.2M Fast Charging 3A 8 P	B08CF3B7N1	399	154	245
	pTron Solero TB301 3A Type-C Data and Fast C	B08Y1TFSP6	1000	149	851
	boAt Micro USB 55 Tangle-free, Sturdy Micro US	B08WRWPM22	499	176.63	322.37
	MI Usb Type-C Cable Smartphone (Black)	B08DDRGWTJ	299	229	70
	TP-Link USB WiFi Adapter for PC(TL-WN725N),	B008IFXQFU	999	499	500
	Automore Maharalada COM / DA Fact Charains	DODDI TOKO	200	100	100

Objective:- Identifying which products offer the highest average discount value Supporting decisions on pricing adjustments, profit margins, and promotional planning





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

Select product_id, product_name, review_id, review_content
From amazon.mytable WHERE review_content LIKE "%fast charging%";

Objective:- Understand how frequently "fast charging" is mentioned in reviews

	product_id	product_name	review_id	review_content
١	B098NS6PVG	Ambrane Unbreakable 60W / 3A Fast Charging	RGIQEG07R9HS2,R1SMWZQ86XIN8U,R2J3Y1W	I ordered this cable to connect my phone to An
	B08HDJ86NZ	boAt Deuce USB 300 2 in 1 Type-C & Micro USB	R3EEUZKKK9J36I,R3HJVYCLYOY554,REDECAZ7	Good product,long wire,Charges good,Nice,I bo
	B082LZGK39	Ambrane Unbreakable 60W / 3A Fast Charging	RGIQEG07R9HS2,R1SMWZQ86XIN8U,R2J3Y1W	I ordered this cable to connect my phone to An
	B08CF3D7QR	Portronics Konnect L POR-1081 Fast Charging 3	R11MQS7WD9C3I0,R2AKH69XQY8BY4,R8GBOL	The cable is efficient in fast charging but in quic
	B0789LZTCJ	boAt Rugged v3 Extra Tough Unbreakable Braid	R3EEUZKKK9J36I,R3HJVYCLYOY554,REDECAZ7	Good product,long wire, Charges good, Nice, I bo
	B085DTN6R2	Portronics Konnect CL 20W POR-1067 Type-C t	R1QETDIPRCX4S0,RARQYQ8POOFA9,R952F93	Definitely isn't as good as the original cord but
	B083342NKJ	MI Braided USB Type-C Cable for Charging Ada	R2JPQNKCOE10UK,RQI80JG2WZXNF,R2LYZ4C	I like it 🚯 🛈 ,Best charging power . I used this c
	B082LSVT4B	Ambrane Unbreakable 60W / 3A Fast Charging	RGIQEG07R9HS2,R1SMWZQ86XIN8U,R2J3Y1W	I ordered this cable to connect my phone to An
	B08WRBG3XW	boAt Type C A325 Tangle-free, Sturdy Type C	R2BP8Y5OJXKJLF,R218813TNRHNSY,R3VIKEVJ	Check for offera before buying, 18w charging c
-	noon include	Planting the Calda Fan Carantalana Malada	DOCATETONOTRATO DIDOTECCORETAN DAGAZAE	Manhad as inhase 7 and didn's made as inhase



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

select product_id, Product_name, discount_percentage from
amazon.mytable where discount_percentage between 0.20 and
0.40;

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
B0B3MMYHYW	OnePlus 126 cm (50 inches) Y Series 4K Ultra H	0.28
B07KRCW6LZ	TP-Link Nano AC600 USB Wi-Fi Adapter (Archer	0.38
B014I8SSD0	Amazon Basics High-Speed HDMI Cable, 6 Feet	0.35
able 2 ×	0pl 00 (20 i-d) v ci Up pd- C	0.27

Objective:- Discover products positioned in the optimal discount zone for conversions

Compare performance of these products against those with deeper or minimal discounts

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

select product_id, product_name, actual_price, rating from amazon.mytable
where actual_price > 1000 and rating>=4;

	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
	B08QSC1XY8	Zoul USB C 60W Fast Charging 3A 6ft/2M Long	1099	4.3
my	rtable 2 ×	*	+000	

Objective:- Highlight premium products that are well-received by customers

Understand which expensive products justify their price through positive customer feedback

Find products where the discounted price ends with a 9?

select product_id, product_name, discounted_price from
amazon.mytable where discounted_price like "%9";

	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
	B082LZGK39	Ambrane Unbreakable 60W / 3A Fast Charging	199
	B0789LZTCJ	boAt Rugged v3 Extra Tough Unbreakable Braid	299
111	table 2 ×	ADesire Classicia Deservicia (IDMAT Cable Mia	740



Objective:- Detect the usage of charm pricing across the product catalog Evaluate whether such pricing correlates with higher customer interest or sales



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

select product_id, product_name, review_id, review_content from amazon.mytable where review_content like "%worst%" or review_content like '%waste%' or review_content like '%poor%' or review_content like '%not good%';

	product_id	product_name	review_id	review_content
•	B08DDRGWTJ	MI Usb Type-C Cable Smartphone (Black)	R2X090D1YHACKR,R32ZCIH9AFNJ60,R3N57EV	Worth for money - suitable for Android auto
	B08WRBG3XW	boAt Type C A325 Tangle-free, Sturdy Type C	R2BP8Y5OJXKJLF,R218813TNRHNSY,R3VIKEVJ	Check for offera before buying, 18w charging c
	B08DPLCM6T	LG 80 cm (32 inches) HD Ready Smart LED TV 3	R2PNR69G0BQG2F,R31A0WWDEYMKEW,R2C4	LG was always Good , correct delivery, good se
	B085194JFL	tizum HDMI to VGA Adapter Cable 1080P for Pr	R1GYK05NN6747O,R1J21BZ29NGQF9,R16JCHE	This connector has provided as a boon for my ol
	B09F6S8BT6	Samsung 80 cm (32 Inches) Wondertainment Se	R 1SN0D4DFBKAZI,R 1SX5L77L2CD6V,R 1NAZ6M	Overall good.,TV picture ok smart betterSound
	B0B1YVCJ2Y	Acer 80 cm (32 inches) I Series HD Ready Andr	R 1EBS3566VCSCG,R24MB66WRPSN2A,R25UU2	About the TV - Wonderful
	B08B42LWKN	OnePlus 80 cm (32 inches) Y Series HD Ready L	R3COVVOP2R7Z28,R2T6WHEO2ONNDD,RUFFV	This OnePlus TV is great if you want a affordabl
	B008FWZGSG	Samsung Original Type C to C Cable - 3.28 Feet	R2Z9ENI 1BK4EAB,R2JTBG4GO7WPMG,R3GKCN	Buy it, Received in good condition and is working
	B0B3MMYHYW	OnePlus 126 cm (50 inches) Y Series 4K Ultra H	R2J3Q3BUHJ2S7E,R2H2ELE1DG24VY,R1U1S7X	I am posting this after a few weeks of using the
m	vtable 1 ×	M: 100 (42 : 1) F. II (ID A1: 1 (FD T)) A	D HIOVIDUO TETOTALI D IDTOCTALIDIOVO DODOCA 4	NOTE . O. T

Objective:- Detect products with frequent dissatisfaction or quality issues Support product improvement by highlighting areas needing

attention





List all products where the category includes "Accessories."

select product_id, product_name, category from amazon.mytable
where category like "%Accessories%";

	product_id	product_name	category
٠	B07JW9H4J1	Wayona Nylon Braided USB to Lightning Fast Charging and Data Sync Cable	Computers&Accessories Accessories&Peripheral
	B098NS6PVG	Ambrane Unbreakable 60W / 3A Fast Charging 1.5m Braided Type C Cable f	Computers&Accessories Accessories&Peripheral
	B096MSW6CT	Sounce Fast Phone Charging Cable & Data Sync USB Cable Compatible for iP	Computers&Accessories Accessories&Peripheral
	B08HDJ86NZ	boAt Deuce USB 300 2 in 1 Type-C & Micro USB Stress Resistant, Tangle-Fre	Computers&Accessories Accessories&Peripheral
	B08CF3B7N1	Portronics Konnect L 1.2M Fast Charging 3A 8 Pin USB Cable with Charge &	Computers&Accessories Accessories&Peripheral
	B08Y1TFSP6	pTron Solero TB301 3A Type-C Data and Fast Charging Cable, Made in India	Computers&Accessories Accessories&Peripheral
	B08WRWPM22	boAt Micro USB 55 Tangle-free, Sturdy Micro USB Cable with 3A Fast Chargi	Computers&Accessories Accessories&Peripheral
	B08DDRGWTJ	MI Usb Type-C Cable Smartphone (Black)	Computers&Accessories Accessories&Peripheral
	B008IFXQFU	TP-Link USB WiFi Adapter for PC(TL-WN725N), N150 Wireless Network Adap	Computers&Accessories NetworkingDevices Ne
m	rtable 2 x	Author: Historia the Court for Free Character 4 For Builded Misser Hop Cold	C

Objective:- Understand the range and performance of accessory products Identify top-performing or underperforming accessory items



THANKS!

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