



SALES ANALYSIS USING SQL

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**“ONE OF THE ONLY WAYS
TO GET OUT OF A TIGHT
BOX IS TO INVENT YOUR
WAY OUT.”**

-JEFF BEZOS(Executive Chairman, Amazon)



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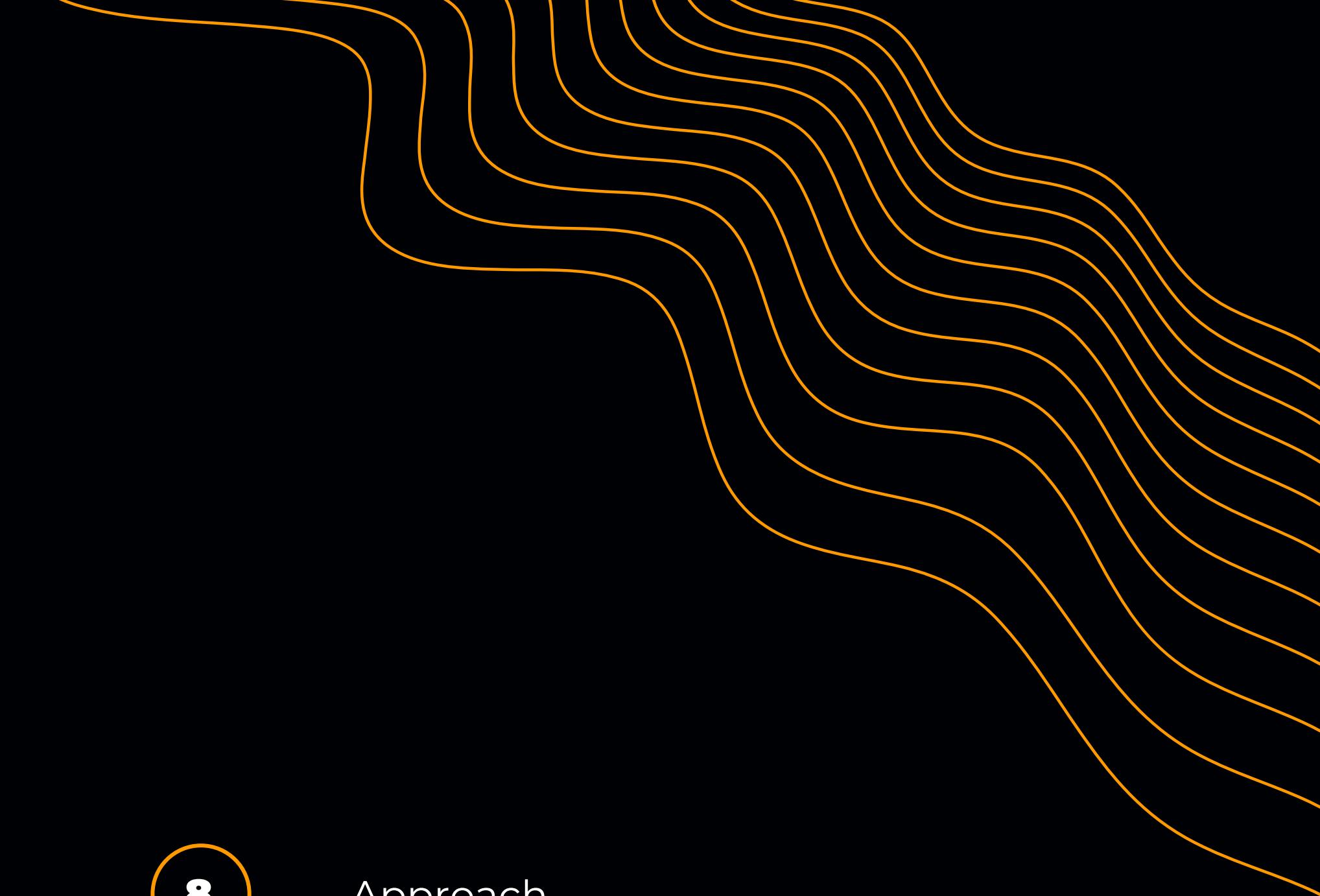
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ABOUT AMAZON

Amazon.com, doing business as Amazon, is an American multinational technology company, engaged in e-commerce, cloud computing, online advertising, digital streaming, and artificial intelligence. It is considered one of the Big Five American technology companies.

Amazon was founded on July 5, 1994, by Jeff Bezos in Bellevue, Washington. The company originally started as an online marketplace for books but gradually expanded its offerings to include a wide range of product categories.

PROBLEM STATEMENT



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.

QUESTIONS

- 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 discounted price for each product.
- 5] Query reviews that mention "fast charging" in their content.





QUESTIONS

- 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."

APPROACH FOR DATA ANALYSIS

WE START BY CREATING A DATABASE IN MYSQL NAMED AS AMAZON.

```
create database amazon;  
use amazon;
```

AFTER CREATING THE DATABASE, WE CAN MOVE ONTO ANALYSING THE DATA WITH THE HELP OF QUERIES USING MYSQL.

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

```
SELECT  
    product_name, discounted_price  
FROM  
    mytable  
WHERE  
    discounted_price < 500  
ORDER BY discounted_price DESC;
```

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

```
SELECT  
    product_name, discount_percentage  
FROM  
    mytable  
WHERE  
    discount_percentage >= 0.5  
ORDER BY discount_percentage;
```

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

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

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

```
SELECT  
    product_name,  
    actual_price,  
    discounted_price,  
    AVG(actual_price - discounted_price) AS price_difference  
FROM  
    mytable  
GROUP BY product_name , actual_price , discounted_price;
```

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

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

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

```
SELECT  
    product_name, discount_percentage  
FROM  
    mytable  
WHERE  
    discount_percentage BETWEEN 0.2 AND 0.4  
ORDER BY discount_percentage;
```

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  
ORDER BY actual_price;
```

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

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

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%';
```

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

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

thanks!



CONTACT ME



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