

**amazon**

**DATA ANALYSIS  
WITH SQL**



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# PROJECT GOAL:

The aim of this project is to analyze Amazon's sales data using SQL to uncover valuable insights. By running various SQL queries, I will identify products with major discounts, analyze customer reviews, explore pricing trends, and categorize products. These insights will help Amazon improve its pricing strategies, optimize product offerings, and understand customer feedback better. Ultimately, the analysis will support Amazon in refining its sales strategies, enhancing customer satisfaction, and driving overall business growth.

## 1. QUESTION

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

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



## 2. QUESTION

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

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



### 3. QUESTION

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

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

## 4. QUESTION

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

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



## 5. QUESTION

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

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

## 6. QUESTION

-- 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;
```



## 7. QUESTION

-- 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
    mytable
WHERE
    actual_price > 1000 AND rating >= 4;
```

## 8. QUESTION

-- Find products where the discounted price ends with a 9

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



## 9. QUESTION

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

```
SELECT  
    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. QUESTION

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

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



# THANK YOU

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