

# **ZEPTO INVENTORY ANALYSIS SQL PROJECT :**

## **All SQL Queries:**

```
SELECT * FROM zepto_data;
```

### **-- CHECK NULLS**

```
SELECT * FROM zepto_data
```

```
WHERE Category IS NULL OR
```

```
Name IS NULL OR
```

```
Mrp IS NULL OR
```

```
Discount_Percent IS NULL OR
```

```
Available_Quantity IS NULL OR
```

```
Discounted_SellingPrice IS NULL OR
```

```
Weight_InGms IS NULL OR
```

```
Out_of_Stock IS NULL OR
```

```
Quantity IS NULL;
```

### **-- CHECK DISTINCT Categories and Product Names**

```
SELECT DISTINCT Category
```

```
FROM zepto_data;
```

```
SELECT DISTINCT Name
```

```
FROM zepto_data;
```

### **-- OUT OF STOCK = Available VS Not Available**

```
SELECT Out_of_Stock,
```

COUNT(\*) AS Stocks

FROM zepto\_data

GROUP BY Out\_of\_Stock

-- 0 means Available -- 1 means Not available

-- Product Names present in Multiple times

SELECT

Name,

COUNT(\*) AS No\_count

FROM zepto\_data

GROUP BY Name

ORDER BY No\_count DESC

**-- Data Cleaning**

SELECT \*

FROM zepto\_data

WHERE Mrp = 0 AND Discounted\_SellingPrice = 0;

DELETE FROM zepto\_data

WHERE Mrp = 0

**-- Convert Paisa into Rupees**

UPDATE zepto\_data

SET Mrp = Mrp/100.0,

Discounted\_SellingPrice = Discounted\_SellingPrice/100.0

```
SELECT * FROM zepto_data;
```

## **-- Data Analysis : Business Questions**

### **--Q1. Find the top 10 best value Products based on discount percent**

```
SELECT TOP 10  
    Name,  
    Discount_Percent,  
    Mrp  
FROM zepto_data  
ORDER BY Discount_Percent DESC
```

### **--Q2. What are the Products with High Mrp but Out of Stock**

```
SELECT  
    NAME,  
    Mrp  
FROM zepto_data  
WHERE Out_of_Stock = 0 AND Mrp >500  
GROUP BY Name,Mrp  
ORDER BY Mrp DESC
```

### **--Q3. Calculate the estimate Revenue for each category**

```
SELECT TOP 5  
    Category,  
    SUM(Discounted_SellingPrice * Available_Quantity) AS Total_Revenue  
FROM zepto_data
```

GROUP BY Category

ORDER BY Total\_Revenue DESC

**--Q4. Find all Products where Mrp is greater than 500 and discount is less than 10 %**

SELECT

Name,

Mrp,

Discount\_Percent

FROM zepto\_data

WHERE Mrp > 500 AND Discount\_Percent < 10

GROUP BY Name, Mrp,Discount\_Percent

ORDER BY Mrp DESC , Discount\_Percent DESC

**--Q5. Identify the top 5 Categories offering the highest average discount percentage**

SELECT TOP 5

Category,

AVG(Discount\_Percent) AS Avg\_discount\_percent

FROM zepto\_data

GROUP BY Category

ORDER BY Avg\_discount\_percent DESC

**--Q6. Find the price per gram for products above 100 gram and sort by best value**

SELECT TOP 10

Name,

Weight\_InGms,

Discounted\_SellingPrice,

```
Discounted_SellingPrice / Weight_InGms AS Price_per_gram  
FROM zepto_data  
WHERE Weight_InGms > 100  
ORDER BY Price_per_gram
```

**--Q7. Group the Products into Categories like Low, Medium, Bulk**

```
SELECT  
    Name,  
    Weight_InGms,  
    CASE  
        WHEN Weight_InGms < 1000 THEN 'Low'  
        WHEN Weight_InGms < 5000 THEN 'Medium'  
        ELSE 'Bulk'  
    END AS Weight_Category  
FROM zepto_data  
GROUP BY Name,Weight_InGms
```

**--Q8. What is the Total Inventory weight per Category**

```
SELECT  
    Category,  
    CAST(ROUND(SUM(Weight_InGms * Quantity)/1000.0,1) AS DECIMAL(10,2)) AS  
Total_Inventory_weight_KG  
FROM zepto_data  
GROUP BY Category  
ORDER BY Total_Inventory_weight_KG DESC
```