

## Zepto E-commerce SQL Data Analyst Portfolio Project

### Solutions

#### Creating Table

```
drop table if exists zepto;

create table zepto (
  sku_id SERIAL PRIMARY KEY,
  category VARCHAR(120),
  name VARCHAR(150) NOT NULL,
  mrp NUMERIC(8,2),
  discountPercent NUMERIC(5,2),
  availableQuantity INTEGER,
  discountedSellingPrice NUMERIC(8,2),
  weightInGms INTEGER,
  outOfStock BOOLEAN,
  quantity INTEGER
);
```

#### --data exploration

##### --count of rows

```
select count(*) from zepto;
```

##### --sample data

```
SELECT * FROM zepto
```

LIMIT 10;

### --null values

SELECT \* FROM zepto

WHERE name IS NULL

OR

category IS NULL

OR

mrp IS NULL

OR

discountPercent IS NULL

OR

discountedSellingPrice IS NULL

OR

weightInGms IS NULL

OR

availableQuantity IS NULL

OR

outOfStock IS NULL

OR

quantity IS NULL;

### --different product categories

SELECT DISTINCT category

FROM zepto

ORDER BY category;

### --products in stock vs out of stock

SELECT outOfStock, COUNT(sku\_id)

FROM zepto

GROUP BY outOfStock;

### --product names present multiple times

SELECT name, COUNT(sku\_id) AS "Number of SKUs"

FROM zepto

GROUP BY name

HAVING count(sku\_id) > 1

ORDER BY count(sku\_id) DESC;

### --data cleaning

#### --products with price = 0

SELECT \* FROM zepto

WHERE mrp = 0 OR discountedSellingPrice = 0;

DELETE FROM zepto

WHERE mrp = 0;

#### --convert paise to rupees

UPDATE zepto

SET mrp = mrp / 100.0,

discountedSellingPrice = discountedSellingPrice / 100.0;

SELECT mrp, discountedSellingPrice FROM zepto;

### --data analysis

**-- Q1. Find the top 10 best-value products based on the discount percentage.**

```
SELECT DISTINCT name, mrp, discountPercent  
  
FROM zepto  
  
ORDER BY discountPercent DESC  
  
LIMIT 10;
```

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

```
SELECT DISTINCT name,mrp  
  
FROM zepto  
  
WHERE outOfStock = TRUE and mrp > 300  
  
ORDER BY mrp DESC;
```

**--Q3.Calculate Estimated Revenue for each category**

```
SELECT category,  
  
SUM(discountedSellingPrice * availableQuantity) AS total_revenue  
  
FROM zepto  
  
GROUP BY category  
  
ORDER BY total_revenue;
```

**-- Q4. Find all products where MRP is greater than ₹500 and discount is less than 10%.**

```
SELECT DISTINCT name, mrp, discountPercent  
  
FROM zepto  
  
WHERE mrp > 500 AND discountPercent < 10,  
  
ORDER BY mrp DESC, discountPercent DESC;
```

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

```
SELECT category,  
  
ROUND(AVG(discountPercent),2) AS avg_discount  
  
FROM zepto  
  
GROUP BY category  
  
ORDER BY avg_discount DESC,LIMIT 5;
```

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

```
SELECT DISTINCT name, weightInGms, discountedSellingPrice,  
ROUND(discountedSellingPrice/weightInGms,2) AS price_per_gram  
FROM zepto  
WHERE weightInGms >= 100  
ORDER BY price_per_gram;
```

**--Q7.Group the products into categories like Low, Medium, Bulk.**

```
SELECT DISTINCT name, weightInGms,  
CASE WHEN weightInGms < 1000 THEN 'Low'  
      WHEN weightInGms < 5000 THEN 'Medium'  
      ELSE 'Bulk'  
      END AS weight_category  
FROM zepto;
```

**--Q8.What is the Total Inventory Weight Per Category**

```
SELECT category,  
SUM(weightInGms * availableQuantity) AS total_weight  
FROM zepto  
GROUP BY category  
ORDER BY total_weight;
```