



# **ZEPTO-INVENTORY MANAGEMENT SYSTEM**

## **SQL PROJECT**

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# INTRODUCTION

This project focuses on analyzing Zepto inventory data using SQL to generate meaningful business insights related to sales performance and stock management.

The dataset contains product-level details such as category, product name, MRP, discount percentage, selling price, available quantity, stock status, and units sold. The objective of this analysis is to evaluate revenue performance, identify top-selling products, rank products within each category, detect high-stock but low-sales items, and determine the overall revenue contribution of products and categories. Advanced SQL concepts including aggregations, subqueries and window functions were applied to transform raw inventory data into actionable insights that can support better business decisions and inventory optimization.

# RETRIEVE ALL PRODUCTS IN THE "FRUITS & VEGETABLES" CATEGORY.

```
SELECT
    name
FROM    zepto
WHERE
    category = 'Fruits & Vegetables';
```

Result Grid



Filter Row

	name
▶	Onion
	Tomato Hybrid
	Tender Coconut
	Coriander Leaves
	Ladies Finger

# DISPLAY PRODUCT NAMES AND THEIR SELLING PRICES.

```
SELECT
    name AS Product_name,
    discountedSellingPrice AS Selling_price
FROM
    zepto;
```

Result Grid			Filter Rows:	
	Product_name	Selling_price		
▶	Onion	21		
	Tomato Hybrid	35		
	Tender Coconut	43		
	Coriander Leaves	17		
	Ladies Finger	12		
zepto 2			✕	

# SHOW PRODUCTS WITH AVAILABLE\_QUANTITY LESS THAN 5.

```
SELECT
    name, availableQuantity
FROM
    zepto
WHERE
    availableQuantity < 5;
```

Result Grid			Filter Rows:
	name	availableQuantity	
▶	Onion	3	
	Tomato Hybrid	3	
	Tender Coconut	3	
	Coriander Leaves	3	
	Ladies Finger	3	

# FIND TOTAL REVENUE GENERATED BY EACH CATEGORY.

```
● SELECT
    category,
    SUM(discountedSellingPrice * quantity) AS Total_revenue
FROM
    zepto
GROUP BY category
ORDER BY Total_revenue ASC;
```

	category	Total_revenue
▶	Fruits & Vegetables	440997
	Health & Hygiene	1496117
	Biscuits	1792601
	Dairy, Bread & Batter	3330483
	Beverages	3330483

# FIND CATEGORIES WHERE AVERAGE DISCOUNT IS MORE THAN 10%.

```
SELECT Category,  
        AVG(discountPercent) AS avg_discount  
FROM zepto  
GROUP BY Category  
HAVING AVG(discountPercent) > 10;
```

	Category	avg_discount
▶	Fruits & Vegetables	15.4624
	Meats, Fish & Eggs	11.0317

# CLASSIFY PRODUCTS AS:HIGH DISCOUNT (>20%)MEDIUM DISCOUNT (10–20%)LOW DISCOUNT (<10%)

```
SELECT
    name,
    dicountPercent,
    CASE
        WHEN dicountPercent > 20 THEN 'High Discount'
        WHEN dicountPercent BETWEEN 10 AND 20 THEN 'Medium Discount'
        ELSE 'Low Discount'
    END AS discount_category
FROM zepto;
```

	name	dicountPercent	discount_category
▶	Onion	16	Medium Discount
	Tomato Hybrid	16	Medium Discount
	Tender Coconut	15	Medium Discount
	Coriander Leaves	15	Medium Discount
	Ladies Finger	14	Medium Discount



# CALCULATE PRICE PER GRAM FOR EACH PRODUCT.

```
SELECT
    sku_id,
    name,
    weightInGms,
    ROUND( discountedSellingPrice * 1.0 / weightInGms, 2) AS price_per_gram
FROM zepto;
```

	sku_id	name	weightInGm	price_per_gram
▶	1	Onion	1000	0.02
	2	Tomato Hybrid	1000	0.04
	3	Tender Coconut	58	0.74
	4	Coriander Leaves	100	0.17
	5	Ladies Finger	250	0.05

# FIND PRODUCTS WHOSE SELLING PRICE IS ABOVE THE AVERAGE SELLING PRICE.

```
• SELECT
    sku_id,
    name,
    discountedSellingPrice
FROM zepto
WHERE discountedSellingPrice > (
    SELECT AVG( discountedSellingPrice)
    FROM zepto
);
```

	sku_id	name	discountedSellingPrice
▶	44	Apple Washington	149
	47	Apple Royal Gala	159
	78	Avocado Indian ...	149
	82	Maggi Magic Cu...	179
	83	Dhara Filtered G...	1050

# RANK PRODUCTS BASED ON REVENUE WITHIN EACH CATEGORY.

```
SELECT
    Category,
    name,
    SUM(discountedsellingprice * Quantity) AS total_revenue,
    RANK() OVER (
        PARTITION BY Category
        ORDER BY SUM(discountedsellingprice *Quantity) DESC
    ) AS revenue_rank
FROM zepto
GROUP BY Category, name;
```

Category	name	total_revenue	revenue_rank
Beverages	Amul Cheese Sli...	276250	1
Beverages	Amul Butter - Pa...	124900	2
Beverages	Amul Cheese - B...	120000	3
Beverages	Amul Unsalted C...	119000	4
Beverages	Amul Safed Mak...	116000	5

# FIND TOP 3 PRODUCTS FROM EACH CATEGORY USING ROW\_NUMBER().

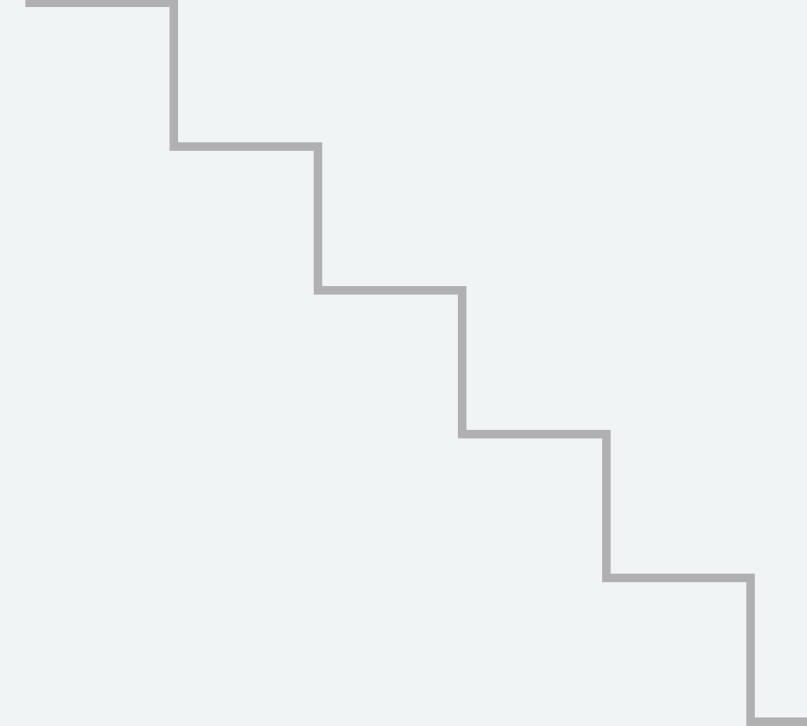
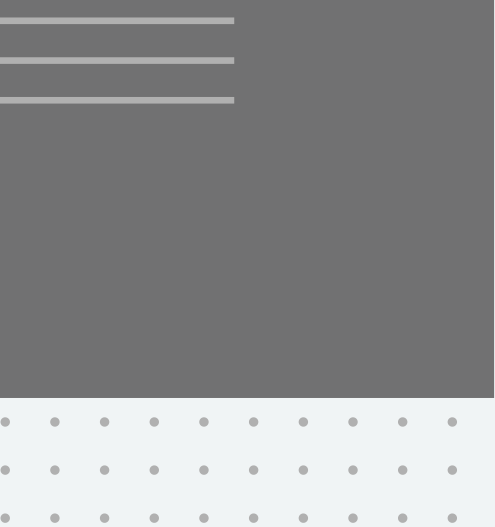
```
SELECT *
FROM (
    SELECT
        Category,
        name,
        SUM(discountedsellingprice * Quantity) AS total_revenue,
        ROW_NUMBER() OVER (
            PARTITION BY Category
            ORDER BY SUM(discountedsellingprice * Quantity) DESC
        ) AS row_num
    FROM zepto
    GROUP BY Category, name
) ranked
WHERE row_num <= 3;
```

Category	name	total_revenue	row
Beverages	Amul Cheese Sli...	276250	1
Beverages	Amul Butter - Pa...	124900	2
Beverages	Amul Cheese - B...	120000	3
Biscuits	Danish Butter C...	140000	1
Biscuits	Britannia Toaste...	86270	2
Biscuits	Karachi Bakery ...	79600	3
Chocolates & Candies	Whiskas Kitten (...)	381700	1
Chocolates & Candies	Baorrvs Fruit an...	374250	2

# FIND TOP 3 PRODUCTS FROM EACH CATEGORY USING ROW\_NUMBER().

```
• SELECT
    Category,
    SUM(discountedsellingprice * Quantity) AS total_revenue
FROM zepto
GROUP BY Category
ORDER BY total_revenue DESC
LIMIT 1;
```

Result Grid			Filter Rows:
	Category	total_revenue	
▶	Packaged Food	17349917	



**THANK YOU**

