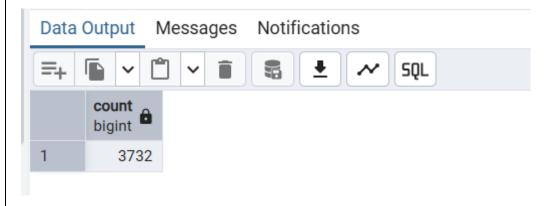
CREATE TABLE

```
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

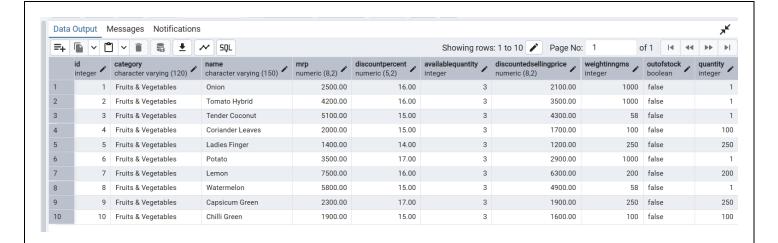
SELECT COUNT(*) FROM Zepto;



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;

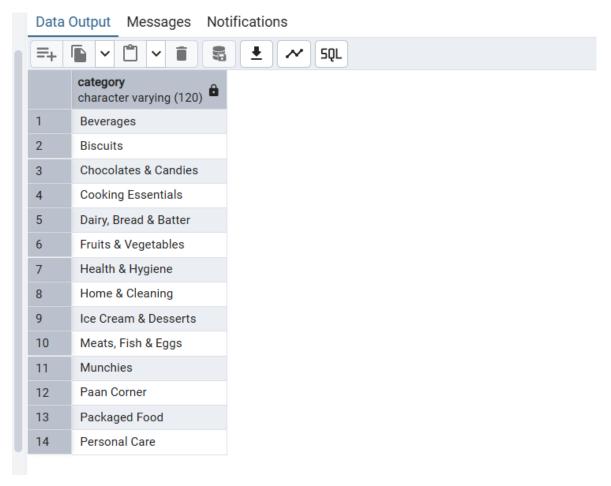


DIFFERENT PRODUCT CATEGORY

SELECT DISTINCT category

FROM Zepto

ORDER BY category;

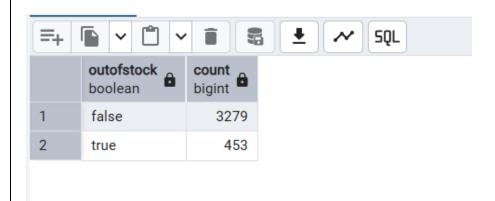


PRODUCTS IN STOCK VS OUT OF STOCK

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;

	name character varying (150)	Number Of SKUs bigint
1	Sunfeast Yippee! Pasta Treat - Sour Cream Onion	10
2	Arden Eggs White	10
3	Quaker Oats	10
4	Saffola Veggie Twist Masala Oats	10
5	Amul Delicious Fat Spread - Cholesterol Free	10
6	Mother's Recipe Tamarind Paste	10
7	Kellogg's Real Almond & Honey Corn Flakes	9
8	Amul Fresh Cream	8
9	iD Idli & Dosa Batter	7
10	Whisper Choice Regular Sanitary Pads	6
11	Closeup Everfresh+ Anti-Germ Gel Toothpaste Red Hot	6
12	Zorabian Chicken Kheema Parathas	6
13	Pantai Green Curry Paste	6
14	Everest Garam Masala	6
15	Everest Chicken Masala	6
16	Maggi Magic Cubes Extra Chicken	6
17	Ching's Secret Just Soak - Veg Hakka Noodles	6
18	Mother's Recipe Pickle - Mango	6
19	Kellogg's Original Corn Flakes	6
20	Everest Tandoori Chicken Masala	6
21	Whisper Ultra Clean XL Plus Sanitary Pad	6
22	rows: 1214 Query complete 00:00:00.099	

DATA CLEANING

PRODUCT WITH PRICE=0

SELECT * FROM Zepto

WHERE mrp = 0 OR discountedSellingPrice = 0;

DELETE FROM Zepto

WHERE mrp = 0;

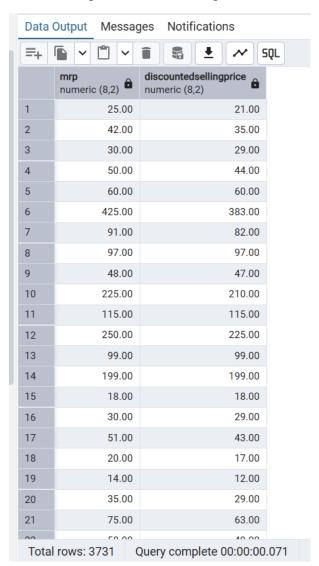
CONVERT PAISA INTO RUPEES

UPDATE Zepto

SET mrp = mrp/100.0,

discountedSellingPrice = discountedSellingPrice/100.0;

SELECT mrp, discountedSellingPrice FROM Zepto;



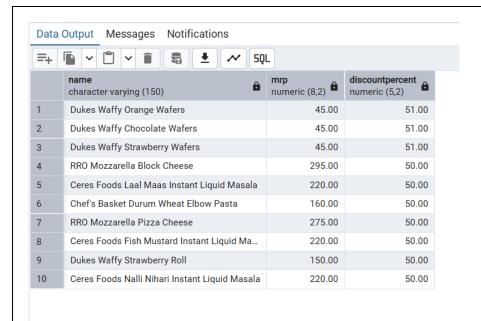
FIND THE TOP 10 BEST VALUE PRODUCTS BASED ON THE DISCOUNT PERCENTAGE

SELECT DISTINCT name, mrp, discountPercent

FROM Zepto

ORDER BY discountPercent DESC

LIMIT 10;



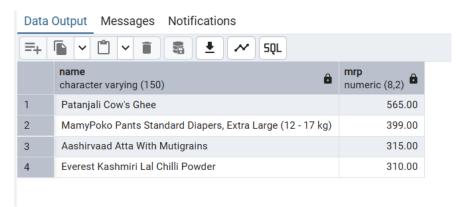
WHAT ARE THE PRODUCTS WITH HIGH MRP BUT OUT OF STOCK

SELECT DISTINCT name, mrp

FROM Zepto

WHERE outOfStock = TRUE and mrp > 300

ORDER BY mrp DESC;



CALCULATE ESTIMATED REVENUE FOR EACH CATEGORY

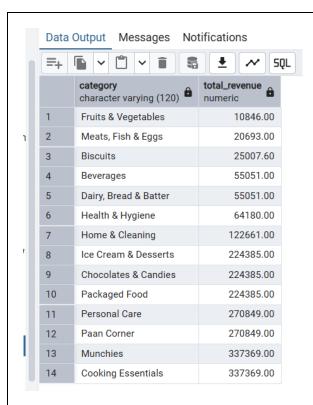
SELECT category,

SUM(discountedSellingPrice * availableQuantity) AS total_revenue

FROM Zepto

GROUP BY category

ORDER BY total_revenue;



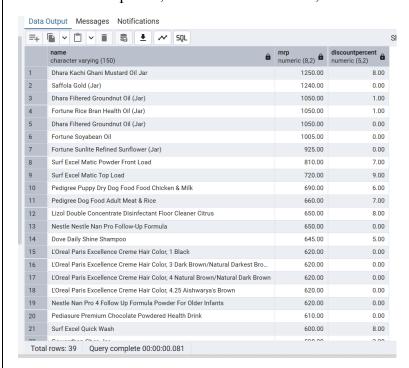
FIND ALL PRODUCTS WHERE MRP IS GREATER THAN 500 AND DISCOUNT IS LESS THAN 10%

SELECT DISTINCT name, mrp, discountPercent

FROM Zepto

WHERE mrp > 500 AND discountPercent <10

ORDER BY mrp desc, discountPercent DESC;



IDENTIFY THE TOP 5 CATEGORIES OFFERING THE HIGHEST AVERAGE DISCOUNT PERCENTAGE

SELECT category,

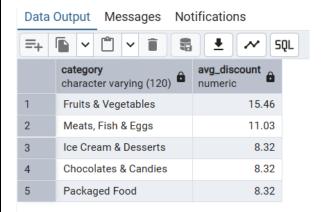
ROUND(AVG(discountPercent),2) AS avg discount

FROM Zepto

GROUP BY category

ORDER BY avg discount DESC

LIMIT 5;



FIND THE PRICE PER GRAM FOR PRODUCTS ABOVE 100G AND SORT BY BEST VALUE

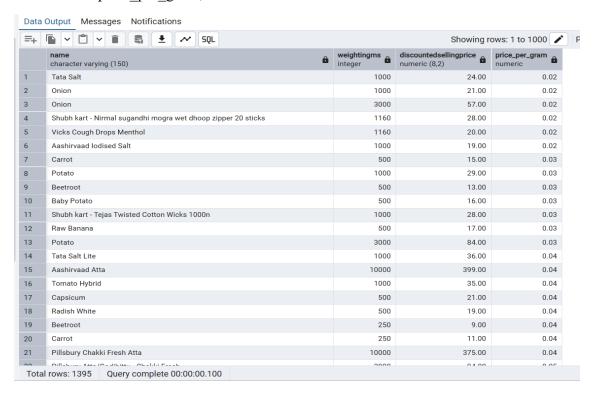
SELECT DISTINCT name, weightInGms, discountedSellingPrice,

ROUND(discountedSellingPrice/weightInGms,2) AS price per gram

FROM Zepto

WHERE weightInGms >= 100

ORDER BY price per gram;



GROUP THE PRODUCTS INTO CATEGORIES LIKE LOW, MEDIUM, BULK

SELECT DISTINCT name, weightInGms,

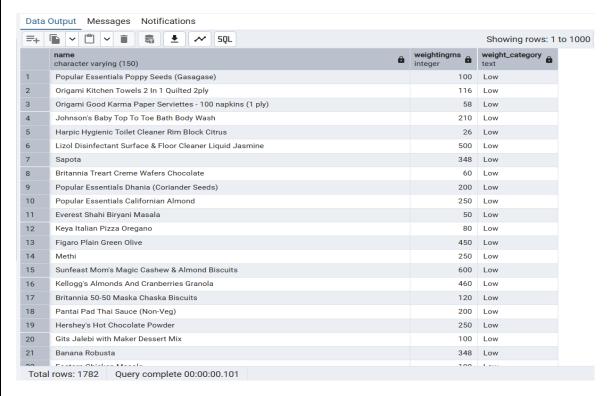
CASE WHEN weightInGms < 1000 THEN 'Low'

WHEN weightInGms < 5000 THEN 'Medium'

ELSE 'Bulk'

END AS weight_category

FROM Zepto;



WHAT IS THE TOTAL INVENTORY WEIGHT PER CATEGORY

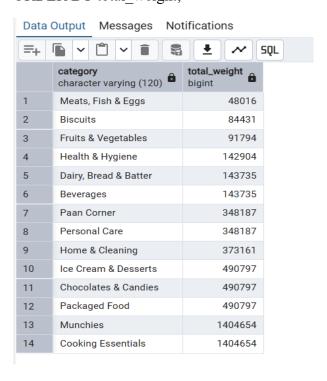
SELECT category,

SUM(weightInGms * availableQuantity) AS total_weight

FROM Zepto

GROUP BY category

ORDER BY total weight;



INNER JOIN

TABLE 2: CATEGORY INFO

CREATE TABLE category_info (
Category VARCHAR(50) PRIMARY KEY,
description VARCHAR(255)
);

CATEGORY_INFO DATA

INSERT INTO category_info (Category, description) VALUES

('Fruits & Vegetables', 'Fresh farm produce'),

('Snacks', 'Packaged snacks and munchies'),

('Beverages', 'Drinks and refreshers');

INNER JOIN

SELECT z.Category, z.name, z.mrp, c.description

FROM Zepto AS z

INNER JOIN category info AS c

ON z.Category = c.Category;

=+	[Showing rows: 1 to 2	
	category character varying (120)	name character varying (150)	mrp numeric (8,2)	description character varying (255)	
1	Fruits & Vegetables	Onion	25.00	Fresh farm produce	
2	Fruits & Vegetables	Tomato Hybrid	42.00	Fresh farm produce	
3	Beverages	iD Curd Cup	60.00	Drinks and refreshers	
4	Fruits & Vegetables	Tender Coconut	51.00	Fresh farm produce	
5	Fruits & Vegetables	Coriander Leaves	20.00	Fresh farm produce	
6	Fruits & Vegetables	Ladies Finger	14.00	Fresh farm produce	
7	Fruits & Vegetables	Potato	35.00	Fresh farm produce	
8	Fruits & Vegetables	Lemon	75.00	Fresh farm produce	
9	Fruits & Vegetables	Watermelon	58.00	Fresh farm produce	
10	Fruits & Vegetables	Capsicum Green	23.00	Fresh farm produce	
11	Fruits & Vegetables	Chilli Green	19.00	Fresh farm produce	
12	Fruits & Vegetables	Banana Robusta	29.00	Fresh farm produce	
13	Fruits & Vegetables	Garlic Indian	11.00	Fresh farm produce	
14	Fruits & Vegetables	Cauliflower	26.00	Fresh farm produce	
15	Fruits & Vegetables	Ginger	14.00	Fresh farm produce	
16	Fruits & Vegetables	Spinach	19.00	Fresh farm produce	
17	Fruits & Vegetables	Muskmelon	42.00	Fresh farm produce	
18	Fruits & Vegetables	Cabbage	15.00	Fresh farm produce	
19	Fruits & Vegetables	Methi	30.00	Fresh farm produce	
20	Fruits & Vegetables	Broccoli	36.00	Fresh farm produce	
21	Fruits & Vegetables	Sapota	30.00	Fresh farm produce	
22	F	Onles	(0.00	F f	

CREATE VIEW

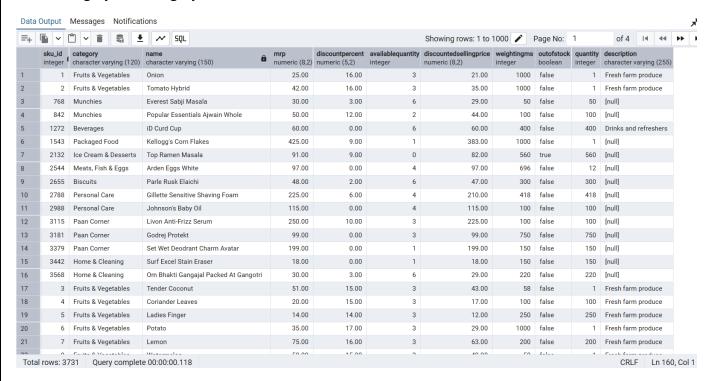
CREATE VIEW zepto_analysis AS

SELECT z.*, c.description

FROM Zepto AS z

LEFT JOIN category info AS c

ON z.Category = c.Category;



INDEX CREATION

CHECK THE SNACK

SELECT z.*, c.description

FROM Zepto AS z

LEFT JOIN category info AS c

ON z.Category = c.Category

WHERE z.Category = 'Snacks';



CREATE INDEX

CREATE INDEX idx_category_zepto

ON Zepto(Category);

CREATE INDEX idx_category_categoryinfo

ON category_info(Category);

SHOW THE INDEX

SELECT *

FROM pg_indexes

WHERE tablename = 'zepto';

