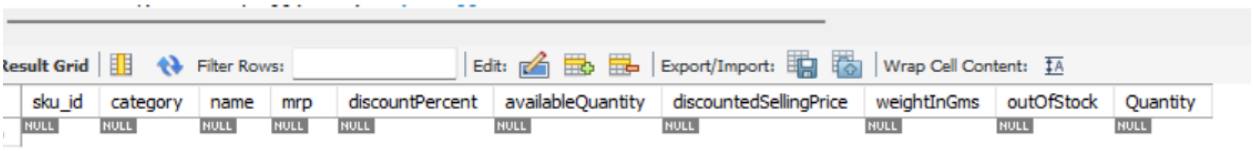
SQL ZEPTO PROJECT - AANAM SHAIKH

CREATING DATABASE AND TABLE

```sql
create database zepto_SQL_project;

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
)
```

CHECK NULL VALUES

```sql
/*CHECK NULL VALUES*/

select * from zepto
where name is null
or category is null
or mrp is null
or discountPercent is null
or availableQuantity is null
```



DIFFERENT PRODUCT CATEGORIES

```
27
28      /*DIFFERENT PRODUCT CATEGORIES*/
29      select distinct category
30      from zepto
31      order by category;
32
```

Result Grid | Filter Rows: | Export:

	category
▶	Beverages
	Biscuits
	Chocolates & Candies
	Cooking Essentials
	Dairy, Bread & Batter
	Fruits & Vegetables
	Health & Hygiene

zepto 62 ×

Output

PRODUCTS IN STOCK AND OUT OF STOCK

```sql
/*PRODUCTS IN STOCK AND OUT OF STOCK*/
select outOfStock, count(sku_id)
from zepto
group by outOfStock;
```

Result Grid | Filter Rows: | Export: | Wrap

outOfStock	count(sku_id)
0	3279
1	453

PRODUCT PRICE IS ZERO

```sql
/*products price = 0*/
select name, mrp , discountedSellingPrice
from zepto
where mrp = 0 or discountedSellingPrice = 0
order by mrp;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Conte

name	mrp	discountedSellingPrice
Cherry Blossom Liquid Shoe Polish Neutral	0.00	0.00

PRODUCTS PRESENT MORE THAN ONCE

```
38      /*PRODUCTS PRESENT MORE THAN ONCE*/
39 •    select name, count(sku_id) as "Number Of Skus"
40      from zepto
41      group by name
42      having count(sku_id) > 1
43      order by count(sku_id) DESC;
44
```

Result Grid | Filter Rows: | Export: | Wrap Cell Con

name	Number Of Skus
Arden Eggs White	10
Saffola Veggie Twist Masala Oats	10
Quaker Oats	10
Sunfeast Yippee! Pasta Treat - Sour Cream Onion	10
Sunfeast YiPPee! Magic Masala Noodles	10
Mother's Recipe Tamarind Paste	10
Amul Delicious Fat Spread - Cholesterol Free	10

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

```sql
/*Q1) FIND THE TOP 10 BEST PRODUCTS BASED ON DISCOUNT PERCENTAGE */

SELECT  distinct name , mrp, discountPercent
from zepto
order by discountPercent DESC
limit 10;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

name	mrp	discountPercent
Dukes Waffy Chocolate Wafers	45.00	51.00
Dukes Waffy Orange Wafers	45.00	51.00
Dukes Waffy Strawberry Wafers	45.00	51.00
Ceres Foods Fish Mustard Instant Liquid Masala	220.00	50.00
Ceres Foods Laal Maas Instant Liquid Masala	220.00	50.00
Ceres Foods Nalli Nihari Instant Liquid Masala	220.00	50.00
Chef's Basket Durum Wheat Elbow Pasta	160.00	50.00
Chef's Basket Durum Wheat Fusilli Pasta	160.00	50.00

zepto 15

```sql
 /*accidently divided the mrp with 100 twice so had to multiply it to get the correct number*/
update  zepto
set mrp = mrp*100.0,
discountedSellingPrice = discountedSellingPrice*100.0;
```

CALCULATE ESTIMATED REVENUE FOR EACH CATEGORY

we used discounted selling price because no one pays the complete mrp

and we multiplied the discounted selling price with the available quantity

```sql
/*calculate estimated revenue for each category*/
select category ,
sum(discountedSellingPrice * availableQuantity) AS Total_Revenue
from zepto
group by category
order by Total_Revenue desc;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

category	Total_Revenue
Cooking Essentials	337369.00
Munchies	337369.00
Personal Care	270849.00
Paan Corner	270849.00
Packaged Food	224385.00
Ice Cream & Desserts	224385.00
Chocolates & Candies	224385.00

PRODUCTS WITH HIGH PRICE BUT OUT OF STOCK

```
79
80      /*products with high price but out of stock*/
81      select distinct name, mrp, outOfStock
82      from zepto
83      where outOfStock = 1 and mrp >= 300
84      order by mrp DESC;
85
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

name	mrp	outOfStock
Patanjali Cow's Ghee	565.00	1
MamyPoko Pants Standard Diapers, Extra Large...	399.00	1
Aashirvaad Atta With Mutigrains	315.00	1
Everest Kashmiri Lal Chilli Powder	310.00	1

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

```sql
/*find all the products where mrp is greater than 500 and discount less than 10%*/

select distinct name, mrp, discountPercent
from zepto
where mrp > 500 and discountPercent < 10
order by mrp desc;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

name	mrp	discountPercent
Dhara Kachi Ghani Mustard Oil Jar	1250.00	8.00
Saffola Gold (Jar)	1240.00	0.00
Dhara Filtered Groundnut Oil (Jar)	1050.00	0.00
Dhara Filtered Groundnut Oil (Jar)	1050.00	1.00
Fortune Rice Bran Health Oil (Jar)	1050.00	1.00
Fortune Soyabean Oil	1005.00	0.00
Fortune Sunlite Refined Sunflower (Jar)	925.00	0.00

zepto 38 ×

Output

IDENTIFY THE TOP 5 CATEGORIES WITH HIGHEST AVERAGE DISCOUNT PERCENTAGE

```sql
/*IDENTIFY THE TOP 5 CATEGORIES WITH HIGHEST AVERAGE DISCOUNT PERCENTAGE*/

select category, round(avg(discountPercent),2) AS AVG_DP
from zepto
group by category
order by AVG_DP desc
limit 5;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

category	AVG_DP
Fruits & Vegetables	15.46
Meats, Fish & Eggs	11.03
Chocolates & Candies	8.32
Ice Cream & Desserts	8.32
Packaged Food	8.32

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

```
108
109     /*FIND THE PRICE  PER GRAM FOR PRODUCTS ABOVE 100G AND SORT BY THE BEST VALUE
110
111 •   select distinct name,discountedSellingPrice,weightInGms,
112     round((discountedSellingPrice/weightInGms),2) as price_per_gm
113     from zepto
114     where weightInGms >=  100
115     order by price_per_gm DESC;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

name	discountedSellingPrice	weightInGms	price_per_gm
Indulekha Bhringa Hair Oil	367.00	100	3.67
L'Oreal Paris Excellence Creme Hair Color, 1 Black	620.00	172	3.60
L'Oreal Paris Excellence Creme Hair Color, 3 Dar...	620.00	172	3.60
L'Oreal Paris Excellence Creme Hair Color, 4 Nat...	620.00	172	3.60
L'Oreal Paris Excellence Creme Hair Color, 4.25 ...	620.00	172	3.60
L'Oreal Casting Creme Ebony Black Hair Color	550.00	159	3.46
L'Oreal Paris Casting Creme Gloss Hair Color (Da...	550.00	159	3.46

Result 51

DIVIDE THE WEIGHTS OF PRODUCTS IN CATEGORIES AS LOW , MEDIUM AND BULK

```sql
/*divide weight in grams  into categories as low, medium and bulk */
select distinct name, weightInGms,
case when weightInGms < 1000 then 'LOW'
WHEN weightInGms < 5000 THEN 'MEDIUM'
ELSE 'BULK'
END AS "weight_category"
from zepto;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

name	weightInGms	weight_category
Onion	1000	MEDIUM
Tomato Hybrid	1000	MEDIUM
Tender Coconut	58	LOW
Coriander Leaves	100	LOW
Ladies Finger	250	LOW
Potato	1000	MEDIUM
Lemon	200	LOW

TOTAL INVENTORY WEIGHT PER CATEGORY

```sql
/*TOTAL INVENTORY WEIGHT PER CATEGORY*/

select category, round(sum(weightInGms * availableQuantity),2) as "total_weight"
from zepto
group by category
order by total_weight;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

category	total_weight
Meats, Fish & Eggs	48016
Biscuits	84431
Fruits & Vegetables	91794
Health & Hygiene	142904
Dairy, Bread & Batter	143735
Beverages	143735
Personal Care	348187

Result 60