

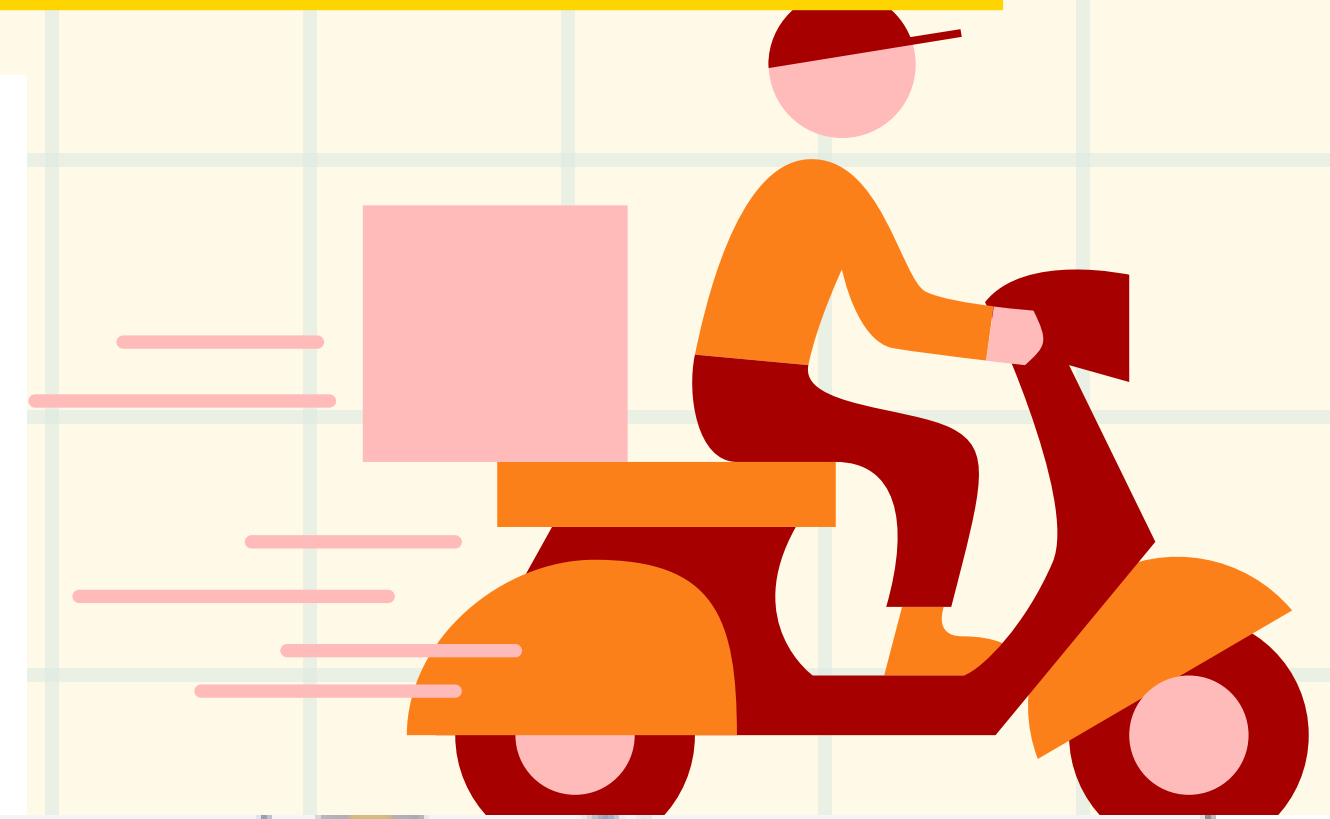


SWIGGY INSTAMART

SQL

COUNT THE NUMBER OF ITEMS IN EACH OUTLET LOCATION TYPE

```
SELECT
    Outlet_type, COUNT(*) AS total_count
FROM
    swiggy_instamart
GROUP BY Outlet_type;
```

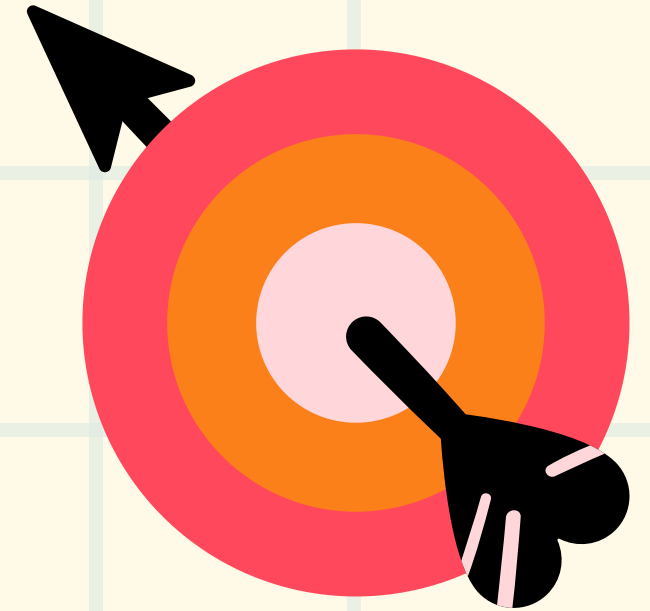


Outlet_type	total_count
Supermarket Type2	1034
Grocery Store	958
Supermarket Type1	1008



FIND THE AVERAGE WEIGHT OF
'BEVERAGES' ITEMS;

```
SELECT
    AVG(item_weight) AS avg_weight
FROM
    swiggy_instamart
WHERE
    Item_Type = 'Beverages';
```



avg_weight
2.514542483660129

LIST THE TOTAL NUMBER OF
ITEMS FOR EACH COMBINATION OF
'ITEM TYPE' AND 'OUTLET SIZE'.

SELECT

Outlet_type, outlet_size, COUNT(*)

FROM

swiggy_instamart

GROUP BY Outlet_type , outlet_size;



Outlet_type	outlet_size	COUNT(*)
Supermarket Type2	Small	346
Grocery Store	Large	329
Supermarket Type1	Large	320
Grocery Store	Medium	318
Supermarket Type1	Small	355
Supermarket Type2	Medium	351
Supermarket Type2	Large	337
Grocery Store	Small	311
Supermarket Type1	Medium	333



FIND THE ITEMS WITH VISIBILITY GREATER THAN 0.05 AND WEIGHT LESS THAN 2

SELECT

*

FROM

swiggy_instamart

WHERE

item_visibility > 0.05

AND Item_weight < 2;

Item_Fat_Content	Item_Identifier	Item_Type	Outlet_Establishment_Year	Outlet_Identifier	Outlet_Location_Type	Outlet_Size	Outlet_Type	Item_Visibility	Item_Weight
Regular	ITEM0002	Beverages	2007	OUT010	Tier 2	Large	Grocery Store	0.060167587	1.2
Regular	ITEM0004	Fruits and Vegetables	2011	OUT007	Tier 1	Large	Supermarket Type1	0.064979926	1.1
Regular	ITEM0008	Fruits and Vegetables	2009	OUT005	Tier 1	Small	Supermarket Type1	0.09505348	1.1
Low Fat	ITEM0013	Dairy Products	2009	OUT008	Tier 2	Small	Grocery Store	0.070651033	0.8
Low Fat	ITEM0016	Fruits and Vegetables	2006	OUT001	Tier 1	Small	Supermarket Type2	0.082116524	1.3
Regular	ITEM0017	Beverages	2002	OUT009	Tier 1	Medium	Supermarket Type2	0.072438046	0.5
Low Fat	ITEM0024	Bakery Products	2012	OUT008	Tier 1	Medium	Grocery Store	0.089759506	1.2
Regular	ITEM0027	Dairy Products	2017	OUT006	Tier 3	Small	Supermarket Type1	0.091896963	0.8
Regular	ITEM0035	Dairy Products	2014	OUT004	Tier 2	Medium	Supermarket Type2	0.086102474	1.7
Low Fat	ITEM0040	Snacks	2016	OUT003	Tier 1	Small	Supermarket Type1	0.067673773	0.7
Regular	ITEM0042	Bakery Products	2015	OUT007	Tier 2	Medium	Supermarket Type1	0.052427415	1.1
Low Fat	ITEM0045	Dairy Products	2019	OUT001	Tier 2	Large	Grocery Store	0.079178711	0.1
Regular	ITEM0054	Beverages	2019	OUT005	Tier 2	Medium	Grocery Store	0.075923306	0.5
Low Fat	ITEM0057	Beverages	2001	OUT008	Tier 1	Medium	Supermarket Type2	0.098098135	0.5
Low Fat	ITEM0063	Bakery Products	2015	OUT001	Tier 3	Large	Supermarket Type1	0.098491992	1.9

CALCULATE THE AVERAGE ITEM VISIBILITY FOR EACH OUTLET TYPE AND LOCATION TYPE COMBINATION.

```
SELECT
    outlet_type,
    outlet_location_type,
    AVG(Item_visibility) AS avg_visibility
FROM
    swiggy_instamart
GROUP BY outlet_type , outlet_location_type ;
```

outlet_type	outlet_location_type	avg_visibility
Supermarket Type2	Tier 3	0.04982794207552871
Grocery Store	Tier 2	0.052412638727003
Supermarket Type1	Tier 3	0.049551884604938264
Supermarket Type1	Tier 1	0.051674981677142864
Grocery Store	Tier 3	0.04863233146601942
Grocery Store	Tier 1	0.04765291279166667
Supermarket Type2	Tier 2	0.051976813592178865
Supermarket Type2	Tier 1	0.04811742782028987
Supermarket Type1	Tier 2	0.049157103416167705



Find the average visibility and weight of items in 'Tier 1' location type, grouped by item fat content and outlet size

```
SELECT
  Item_Fat_content,
  Outlet_Location_Type,
  Outlet_size,
  AVG(Item_Visibility) as avg_visibility,
  AVG(Item_Weight) as avg_weight
FROM
  swiggy_instamart
WHERE
  Outlet_Location_Type = 'Tier 1'
GROUP BY Item_Fat_content , Outlet_size;
```

Item_Fat_content	Outlet_Location_Type	Outlet_size	avg_visibility	avg_weight
Regular	Tier 1	Large	0.049717935921875005	2.5005208333333334
Regular	Tier 1	Medium	0.04821450148765433	2.432098765432099
Regular	Tier 1	Small	0.04876135555737706	2.448633879781423
Low Fat	Tier 1	Small	0.05205154565822783	2.337341772151898
Low Fat	Tier 1	Large	0.04853717428834355	2.5901840490797556
Low Fat	Tier 1	Medium	0.04791168018791949	2.283221476510068



For each item type, list the outlets where that item type has the lowest average visibility.

```
SELECT
    item_type,
    Outlet_Identifier,
    AVG(Item_Visibility) AS avg_visibility
FROM
    swiggy_instamart
GROUP BY item_type , Outlet_Identifier
HAVING AVG(Item_Visibility) = (SELECT
    MIN(avg_visibility)
FROM
    (SELECT
        item_type,
        Outlet_Identifier,
        AVG(Item_Visibility) AS avg_visibility
    FROM
        swiggy_instamart
    GROUP BY item_type , Outlet_Identifier) sub
WHERE
    sub.item_type = swiggy_instamart.Item_Type);
```

item_type	Outlet_Identifier	avg_visibility
Snacks	OUT007	0.04443208758928569
Beverages	OUT002	0.04425380461194029
Dairy Products	OUT002	0.045413367058823546
Bakery Products	OUT010	0.04722262107407408
Fruits and Vegetables	OUT009	0.044996446315789466

FIND THE OUTLET WITH THE HIGHEST AVERAGE ITEM WEIGHT FOR 'FRUITS AND VEGETABLES' ITEMS.

```
select Outlet_Identifier,Item_Type,avg(Item_Weight) as avg_weight from swiggy_instamart where Item_Type="Fruits and Vegetables"  
group by Outlet_Identifier,Item_Type  
having avg(Item_Weight) = (select max(avg_weight)  
from (select Outlet_Identifier,Item_Type,avg(Item_Weight) as avg_weight from swiggy_instamart where Item_Type="Fruits and Vegetables"  
group by Outlet_Identifier,Item_Type) sub);
```

Outlet_Identifier	Item_Type	avg_weight
OUT004	Fruits and Vegetables	2.669014084507041



CALCULATE THE TOTAL NUMBER OF ITEMS, AVERAGE WEIGHT, AND AVERAGE VISIBILITY FOR EACH COMBINATION OF ITEM FAT CONTENT, ITEM TYPE, AND OUTLET SIZE

SELECT

```
Item_Fat_Content,  
Item_Type,  
Outlet_Size,  
COUNT(*) AS total_count,  
AVG(Item_Weight) AS avg_weight,  
AVG(Item_Visibility) AS avg_visibility
```

FROM

```
swiggy_instamart
```

GROUP BY Item_Fat_Content , Item_Type , Outlet_Size

order by Item_Fat_Content;

Item_Fat_Content	Item_Type	Outlet_Size	total_count	avg_weight	avg_visibility
Low Fat	Bakery Products	Large	91	2.469230769230769	0.049195594296703296
Low Fat	Bakery Products	Medium	123	2.4780487804878057	0.04816287020325204
Low Fat	Bakery Products	Small	92	2.117391304347827	0.0586641202173913
Low Fat	Beverages	Large	95	2.543157894736843	0.044924785852631585
Low Fat	Beverages	Medium	99	2.2393939393939406	0.0477162036969697
Low Fat	Beverages	Small	92	2.614130434782609	0.05094715645652176
Low Fat	Dairy Products	Large	99	2.451515151515151	0.04763887329292928
Low Fat	Dairy Products	Medium	104	2.6759615384615385	0.04724553024038459
Low Fat	Dairy Products	Small	106	2.213207547169812	0.05212856853773588
Low Fat	Fruits and Vegetables	Large	88	2.7238636363636357	0.05065149647727272
Low Fat	Fruits and Vegetables	Medium	105	2.220952380952382	0.05009128841904763
Low Fat	Fruits and Vegetables	Small	108	2.4222222222222222	0.05248883023148148
Low Fat	Snacks	Large	98	2.606122448979592	0.05687684968367348
Low Fat	Snacks	Medium	98	2.3418367346938775	0.0483801073979592
Low Fat	Snacks	Small	91	2.2505494505494505	0.0490969754065934
Regular	Bakery Products	Large	93	2.452688172043011	0.04738432165591398



LIST ALL ITEMS WHERE THE ITEM VISIBILITY IS MORE THAN 1.5 TIMES THE AVERAGE VISIBILITY OF ITEMS IN THE SAME OUTLET LOCATION TYPE AND OUTLET SIZE

Item_Fat_Content	Item_Identifier	Item_Type	Outlet_Establishment_Year	Outlet_Identifier	Outlet_Location_Type	Outlet_Size	Outlet_Type	Item_Visibility	Item_Weight
Regular	ITEM0006	Fruits and Vegetables	2017	OUT005	Tier 1	Medium	Grocery Store	0.07648471	4
Regular	ITEM0008	Fruits and Vegetables	2009	OUT005	Tier 1	Small	Supermarket Type1	0.09505348	1.1
Low Fat	ITEM0010	Dairy Products	2017	OUT004	Tier 2	Medium	Supermarket Type2	0.081340922	2.4
Low Fat	ITEM0016	Fruits and Vegetables	2006	OUT001	Tier 1	Small	Supermarket Type2	0.082116524	1.3
Regular	ITEM0017	Beverages	2002	OUT009	Tier 1	Medium	Supermarket Type2	0.072438046	0.5
Regular	ITEM0021	Dairy Products	2000	OUT007	Tier 3	Small	Grocery Store	0.092577092	3.1
Low Fat	ITEM0024	Bakery Products	2012	OUT008	Tier 1	Medium	Grocery Store	0.089759506	1.2
Regular	ITEM0027	Dairy Products	2017	OUT006	Tier 3	Small	Supermarket Type1	0.091896963	0.8
Low Fat	ITEM0029	Dairy Products	2002	OUT009	Tier 1	Large	Supermarket Type1	0.09699121	4
Regular	ITEM0031	Dairy Products	2010	OUT004	Tier 1	Large	Grocery Store	0.075238261	3.9
Regular	ITEM0035	Dairy Products	2014	OUT004	Tier 2	Medium	Supermarket Type2	0.086102474	1.7
Regular	ITEM0044	Dairy Products	2013	OUT001	Tier 3	Small	Supermarket Type2	0.075861832	3.3
Low Fat	ITEM0046	Bakery Products	2012	OUT007	Tier 3	Large	Grocery Store	0.096496284	4
Low Fat	ITEM0048	Beverages	2007	OUT001	Tier 2	Large	Supermarket Type2	0.086130439	3
Regular	ITEM0054	Beverages	2019	OUT005	Tier 2	Medium	Grocery Store	0.075923306	0.5

SELECT

*

FROM

swiggy_instamart AS t1

WHERE

Item_Visibility > (SELECT

1.5 * AVG(Item_Visibility) AS max_visibility

FROM

swiggy_instamart AS t2

WHERE

t1.Outlet_Location_Type = t2.Outlet_Location_Type

AND t1.Outlet_Size = t2.Outlet_Size);



THANK
YOU