# CAPSTONE PROJECT:SQL DATA ANALYSIS PROJECTA close up of a piece of paper with a pencil laying on top

# CREATE TABLE

CREATE TABLE Blink\_Grocery\_Data

(

Item\_Fat\_Content varchar(50),

Item\_Identifier varchar(50),

Item\_Type varchar(50),

Outlet\_Establishment\_Year int,

Outlet\_Identifier varchar(50),

Outlet\_Location\_Type varchar(50),

Outlet\_Size varchar(50),

Outlet\_Type varchar(50),

Item\_Visibility float,

Item\_Weight float,

Sales float,

Rating float

)

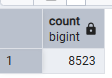
SELECT \*

FROM Blink\_Grocery\_Data

# COUNT HOW MANY CLOUMN IN A DATA

SELECT COUNT(\*)

FROM Blink\_Grocery\_Data



# CLEAN A DATA

UPDATE Blink\_Grocery\_Data

SET item\_fat\_content =

CASE

WHEN item\_fat\_content IN ('LF','low fat')

then 'Low Fat'

WHEN item\_fat\_content = 'reg' then 'Regular'

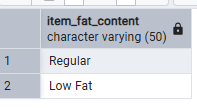
else item\_fat\_content

end

# CKECK DATA IS CLEAN

Select distinct item\_fat\_content

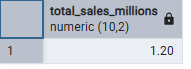
from Blink\_Grocery\_Data



# FIND FIRST KPI

Select cast(Sum(sales)/1000000 as decimal(10,2)) as Total\_sales\_millions

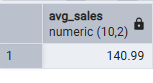
From Blink\_Grocery\_Data



# Avg Sales

Select cast(avg(sales) as decimal(10,2)) as Avg\_sales

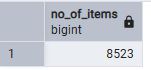
From Blink\_Grocery\_Data



# Find No of items

Select count(\*) as No\_of\_items

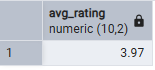
from Blink\_Grocery\_Data



# Find Avg Ratings

Select cast(avg(rating) as decimal(10,2)) as Avg\_rating

From Blink\_Grocery\_Data



# Total Sales By Fat Content:

Select item\_fat\_content,

cast(sum(sales) as decimal(10,2)) as Total\_sales,

cast(avg(sales) as decimal(10,2)) as Avg\_sales,

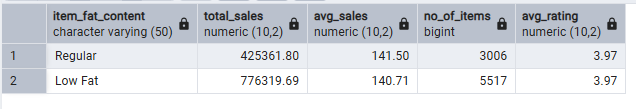
count(\*) as No\_of\_items,

cast(avg(rating) as decimal(10,2)) as Avg\_rating

from Blink\_Grocery\_Data

group by 1

order by 1 desc



#Total sales by item type

Select item\_type,

cast(sum(sales) as decimal(10,2)) as Total\_sales,

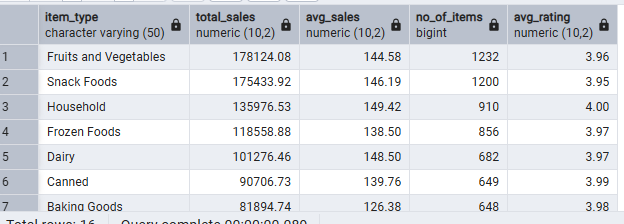
cast(avg(sales) as decimal(10,2)) as Avg\_sales,

count(\*) as No\_of\_items,

cast(avg(rating) as decimal(10,2)) as Avg\_rating

from Blink\_Grocery\_Data

group by 1

order by 2 desc

# fat content by outlet for Total sales

SELECT

outlet\_location\_type,

ROUND(COALESCE(SUM(CASE WHEN item\_fat\_content = 'Low Fat' THEN sales END)::NUMERIC, 0),2) AS Low\_Fat,

ROUND(COALESCE(SUM(CASE WHEN item\_fat\_content = 'Regular' THEN sales END)::NUMERIC, 0),2) AS Regular

FROM

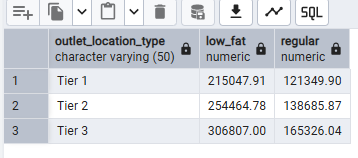
blink\_grocery\_data

GROUP BY

outlet\_location\_type

ORDER BY

outlet\_location\_type;



#TOTAL SALE BY OUTLET ESTABLISHMENT:

SELECT outlet\_establishment\_year,

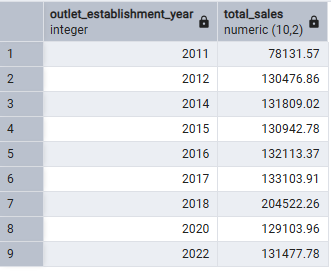
cast(sum(sales) as decimal(10,2)) as Total\_sales

FROM

blink\_grocery\_data

GROUP BY 1

ORDER BY 1 asc



#PERCENTAGE OF SALES BY OUTLET SIZE:

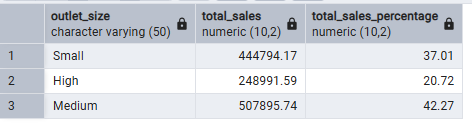
SELECT outlet\_size,

cast(sum(sales) as decimal(10,2)) as Total\_sales,

cast((sum(sales)\*100.0/sum(sum(sales)) over()) as decimal(10,2)) as Total\_sales\_percentage

FROM blink\_grocery\_data

group by 1



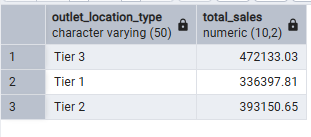
#SALES BY OUTLET LOCATION:

SELECT outlet\_location\_type,

cast(sum(sales) as decimal(10,2)) as Total\_sales

FROM blink\_grocery\_data

group by 1



#ALL METRICS BU OUTLET TYPE:

SELECT outlet\_type,

cast(sum(sales) as decimal(10,2)) as Total\_sales,

cast(AVG(sales) as decimal(10,2)) AS Avg\_sales,

count(\*) as No\_items,

cast(Avg(rating) as decimal(10,2)) as Avg\_rating

FROM blink\_grocery\_data

group by 1

order by 1

