**BLINKIT DATA ANALYSIS – PYTHON PROJECT**

SELECT COUNT(\*) FROM BlinkIT\_Data

OUTPUT



UPDATE BlinkIT\_Data

SET Item\_Fat\_Content =

CASE

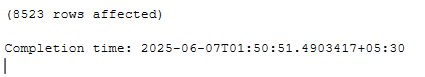
WHEN Item\_Fat\_Content IN ('LF', 'low fat') THEN 'Low Fat'

WHEN Item\_Fat\_Content = 'reg' THEN 'Regular'

ELSE Item\_Fat\_Content

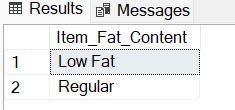
END

OUTPUT



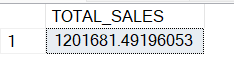
SELECT DISTINCT(Item\_Fat\_Content) FROM BlinkIT\_Data

OUTPUT



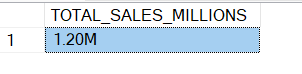
SELECT SUM(Sales) AS TOTAL\_SALES FROM BlinkIT\_Data

OUTPUT



SELECT CAST(CAST(SUM(Sales)/ 1000000 AS DECIMAL(10,2)) AS VARCHAR)+'M' AS TOTAL\_SALES\_MILLIONS FROM BlinkIT\_Data

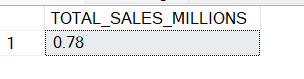
OUTPUT



SELECT CAST(SUM(Sales)/ 1000000 AS DECIMAL(10,2)) AS TOTAL\_SALES\_MILLIONS FROM BlinkIT\_Data

WHERE Item\_Fat\_Content = 'Low Fat'

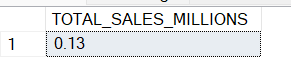
OUTPUT



SELECT CAST(SUM(Sales)/ 1000000 AS DECIMAL(10,2)) AS TOTAL\_SALES\_MILLIONS FROM BlinkIT\_Data

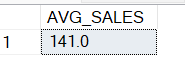
WHERE Outlet\_Establishment\_Year = 2022

OUTPUT



SELECT CAST(AVG(SALES) AS DECIMAL(10,1)) AS AVG\_SALES FROM BlinkIT\_Data

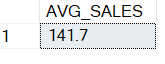
OUTPUT



SELECT CAST(AVG(SALES) AS DECIMAL(10,1)) AS AVG\_SALES FROM BlinkIT\_Data

WHERE Outlet\_Establishment\_Year = 2022

OUTPUT



SELECT COUNT(\*) AS NO\_OF\_ITEMS FROM BlinkIT\_Data

WHERE Outlet\_Establishment\_Year = 2022

OUTPUT



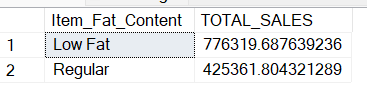
SELECT CAST(AVG(Rating) AS DECIMAL(10,2)) AS AVG\_RATING FROM BlinkIT\_Data

OUTPUT



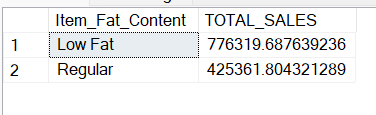
SELECT Item\_Fat\_Content, SUM(Sales) AS TOTAL\_SALES From BlinkIT\_Data GROUP BY Item\_Fat\_Content

OUTPUT



SELECT Item\_Fat\_Content, SUM(Sales) AS TOTAL\_SALES From BlinkIT\_Data GROUP BY Item\_Fat\_Content ORDER BY TOTAL\_SALES DESC

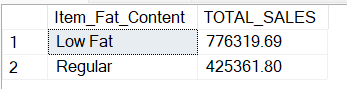
OUTPUT



SELECT Item\_Fat\_Content, CAST(SUM(Sales) AS DECIMAL(10,2)) AS TOTAL\_SALES

From BlinkIT\_Data GROUP BY Item\_Fat\_Content ORDER BY TOTAL\_SALES DESC

OUTPUT



SELECT Item\_Fat\_Content,

CAST(SUM(Sales) AS DECIMAL(10,2)) AS TOTAL\_SALES,

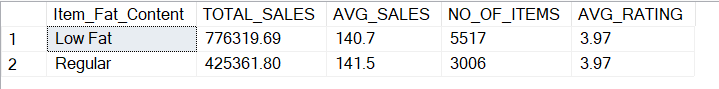
CAST(AVG(SALES) AS DECIMAL(10,1)) AS AVG\_SALES,

COUNT(\*) AS NO\_OF\_ITEMS,

CAST(AVG(Rating) AS DECIMAL(10,2)) AS AVG\_RATING

From BlinkIT\_Data GROUP BY Item\_Fat\_Content ORDER BY TOTAL\_SALES DESC

OUTPUT



SELECT Item\_Fat\_Content,

CAST(SUM(Sales) AS DECIMAL(10,2)) AS TOTAL\_SALES,

CAST(AVG(SALES) AS DECIMAL(10,1)) AS AVG\_SALES,

COUNT(\*) AS NO\_OF\_ITEMS,

CAST(AVG(Rating) AS DECIMAL(10,2)) AS AVG\_RATING

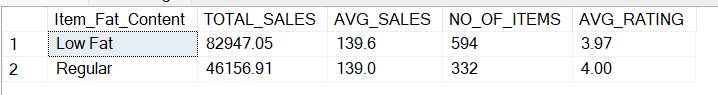
From BlinkIT\_Data

WHERE Outlet\_Establishment\_Year = 2020

GROUP BY Item\_Fat\_Content

ORDER BY TOTAL\_SALES DESC

OUTPUT



SELECT Item\_Fat\_Content,

CAST(CAST(SUM(Sales)/1000 AS DECIMAL(10,2)) AS varchar)+'K' AS TOTAL\_SALES\_THOUSANDS,

CAST(AVG(SALES) AS DECIMAL(10,1)) AS AVG\_SALES,

COUNT(\*) AS NO\_OF\_ITEMS,

CAST(AVG(Rating) AS DECIMAL(10,2)) AS AVG\_RATING

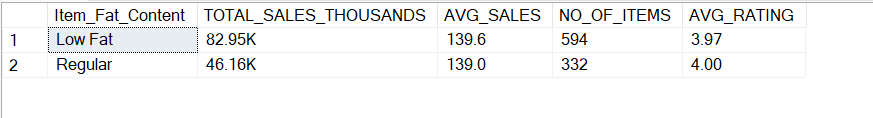
From BlinkIT\_Data

WHERE Outlet\_Establishment\_Year = 2020

GROUP BY Item\_Fat\_Content

ORDER BY TOTAL\_SALES\_THOUSANDS DESC

OUTPUT



SELECT Item\_Type,

CAST(CAST(SUM(Sales)/1000 AS DECIMAL(10,2)) AS varchar)+'K' AS TOTAL\_SALES\_THOUSANDS,

CAST(AVG(SALES) AS DECIMAL(10,1)) AS AVG\_SALES,

COUNT(\*) AS NO\_OF\_ITEMS,

CAST(AVG(Rating) AS DECIMAL(10,2)) AS AVG\_RATING

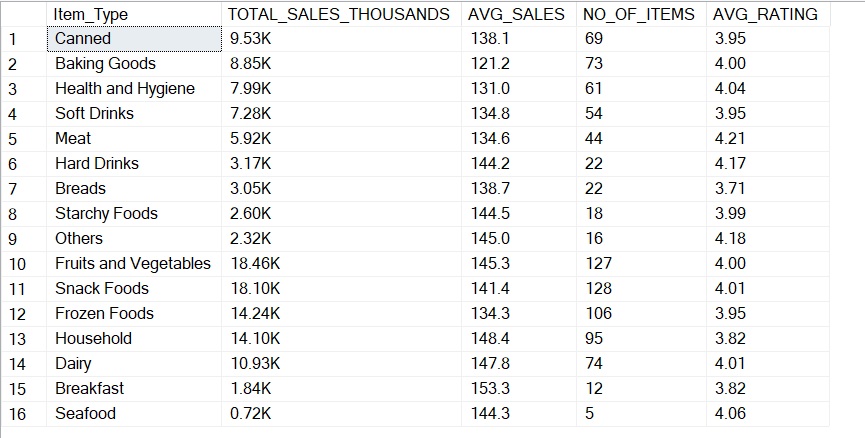
From BlinkIT\_Data

WHERE Outlet\_Establishment\_Year = 2020

GROUP BY Item\_Type

ORDER BY TOTAL\_SALES\_THOUSANDS DESC

OUTPUT



SELECT Item\_Type,

CAST(SUM(Sales)/1000 AS DECIMAL(10,2)) AS TOTAL\_SALES,

CAST(AVG(SALES) AS DECIMAL(10,1)) AS AVG\_SALES,

COUNT(\*) AS NO\_OF\_ITEMS,

CAST(AVG(Rating) AS DECIMAL(10,2)) AS AVG\_RATING

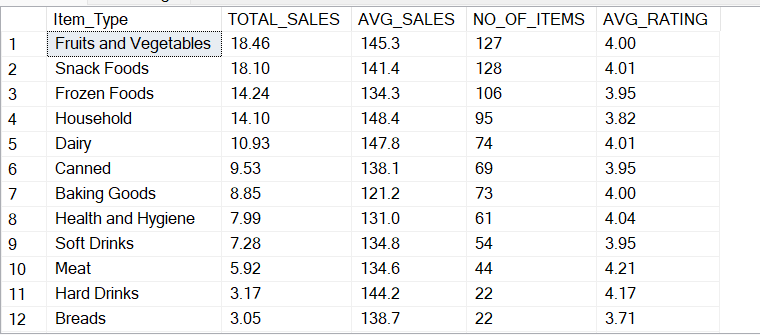
From BlinkIT\_Data

WHERE Outlet\_Establishment\_Year = 2020

GROUP BY Item\_Type

ORDER BY TOTAL\_SALES DESC

OUTPUT



SELECT TOP 5 Item\_Type,

CAST(SUM(Sales)/1000 AS DECIMAL(10,2)) AS TOTAL\_SALES,

CAST(AVG(SALES) AS DECIMAL(10,1)) AS AVG\_SALES,

COUNT(\*) AS NO\_OF\_ITEMS,

CAST(AVG(Rating) AS DECIMAL(10,2)) AS AVG\_RATING

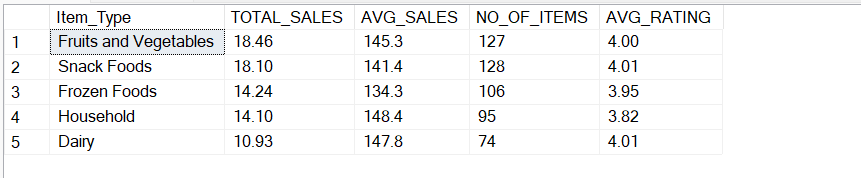
From BlinkIT\_Data

WHERE Outlet\_Establishment\_Year = 2020

GROUP BY Item\_Type

ORDER BY TOTAL\_SALES DESC

OUTPUT



SELECT TOP 5 Item\_Type,

CAST(SUM(Sales)/1000 AS DECIMAL(10,2)) AS TOTAL\_SALES,

CAST(AVG(SALES) AS DECIMAL(10,1)) AS AVG\_SALES,

COUNT(\*) AS NO\_OF\_ITEMS,

CAST(AVG(Rating) AS DECIMAL(10,2)) AS AVG\_RATING

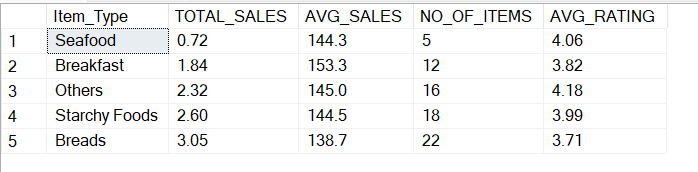
From BlinkIT\_Data

WHERE Outlet\_Establishment\_Year = 2020

GROUP BY Item\_Type

ORDER BY TOTAL\_SALES ASC

OUTPUT



SELECT Outlet\_Location\_Type, Item\_Fat\_Content,

CAST(SUM(Sales) AS DECIMAL(10,2)) AS TOTAL\_SALES,

CAST(AVG(SALES) AS DECIMAL(10,1)) AS AVG\_SALES,

COUNT(\*) AS NO\_OF\_ITEMS,

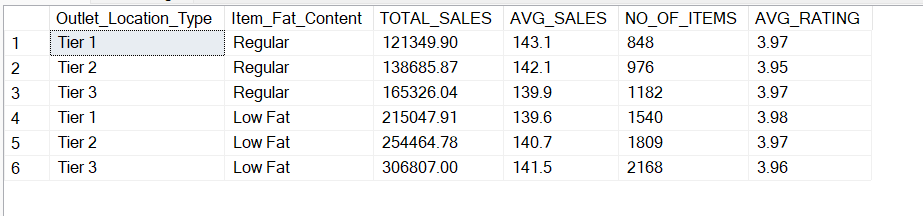
CAST(AVG(Rating) AS DECIMAL(10,2)) AS AVG\_RATING

From BlinkIT\_Data

GROUP BY Outlet\_Location\_Type, Item\_Fat\_Content

ORDER BY TOTAL\_SALES ASC

OUTPUT



SELECT Outlet\_Location\_Type, Item\_Fat\_Content,

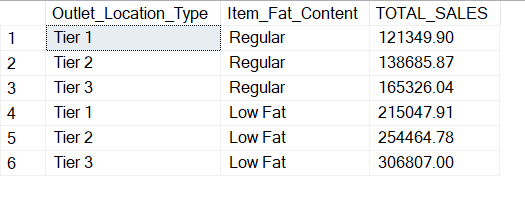
CAST(SUM(Sales) AS DECIMAL(10,2)) AS TOTAL\_SALES

From BlinkIT\_Data

GROUP BY Outlet\_Location\_Type, Item\_Fat\_Content

ORDER BY TOTAL\_SALES ASC

OUTPUT



SELECT Outlet\_Location\_Type,

ISNULL([Low Fat], 0) AS Low\_Fat,

ISNULL([Regular], 0) AS Regular

FROM(

SELECT Outlet\_Location\_Type, Item\_Fat\_Content,

CAST(SUM(Sales) AS DECIMAL(10,2)) AS TOTAL\_SALES

FROM BlinkIT\_Data

GROUP BY Outlet\_Location\_Type, Item\_Fat\_Content

) AS SourceTble

PIVOT(

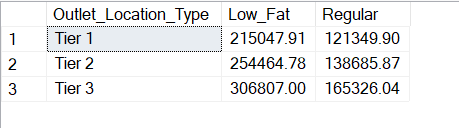
SUM(TOTAL\_SALES)

FOR Item\_Fat\_Content IN ([Low Fat],[Regular])

) AS PivotTable

ORDER BY Outlet\_Location\_Type;

OUTPUT



SELECT Outlet\_Establishment\_Year,

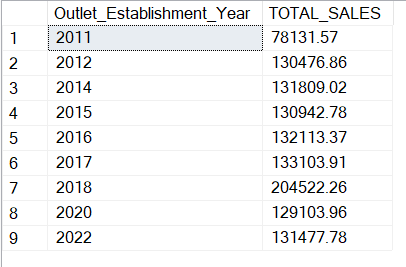
CAST(SUM(Sales) AS DECIMAL(10,2)) AS TOTAL\_SALES

From BlinkIT\_Data

GROUP BY Outlet\_Establishment\_Year

ORDER BY Outlet\_Establishment\_Year ASC

OUTPUT



SELECT Outlet\_Establishment\_Year,

CAST(SUM(Sales) AS DECIMAL(10,2)) AS TOTAL\_SALES,

CAST(AVG(SALES) AS DECIMAL(10,1)) AS AVG\_SALES,

COUNT(\*) AS NO\_OF\_ITEMS,

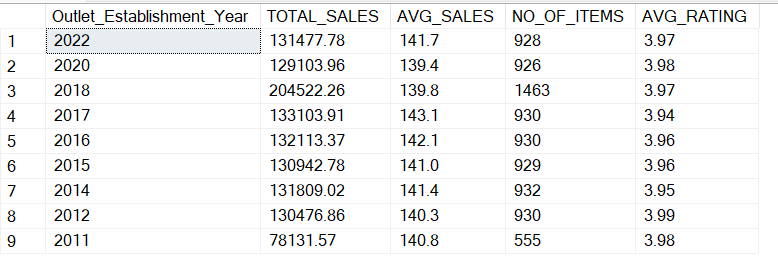
CAST(AVG(Rating) AS DECIMAL(10,2)) AS AVG\_RATING

From BlinkIT\_Data

GROUP BY Outlet\_Establishment\_Year

ORDER BY Outlet\_Establishment\_Year DESC

OUTPUT



SELECT

Outlet\_Size,

CAST(SUM(Sales) AS DECIMAL(10,2)) AS TOTAL\_SALES,

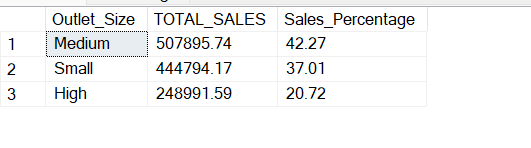
CAST(SUM(Sales)\*100.0 / SUM(SUM(Sales)) OVER() AS DECIMAL(10,2)) AS Sales\_Percentage

From BlinkIT\_Data

GROUP BY Outlet\_Size

ORDER BY TOTAL\_SALES DESC

OUTPUT



SELECT Outlet\_Location\_Type,

CAST(SUM(Sales) AS DECIMAL(10,2)) AS TOTAL\_SALES,

CAST(AVG(SALES) AS DECIMAL(10,1)) AS AVG\_SALES,

COUNT(\*) AS NO\_OF\_ITEMS,

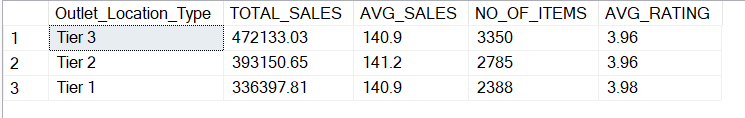
CAST(AVG(Rating) AS DECIMAL(10,2)) AS AVG\_RATING

From BlinkIT\_Data

GROUP BY Outlet\_Location\_Type

ORDER BY TOTAL\_SALES DESC

OUTPUT



SELECT Outlet\_Location\_Type,

CAST(SUM(Sales) AS DECIMAL(10,2)) AS TOTAL\_SALES,

CAST(SUM(Sales)\*100.0 / SUM(SUM(Sales)) OVER() AS DECIMAL(10,2)) AS Sales\_Percentage,

CAST(AVG(SALES) AS DECIMAL(10,1)) AS AVG\_SALES,

COUNT(\*) AS NO\_OF\_ITEMS,

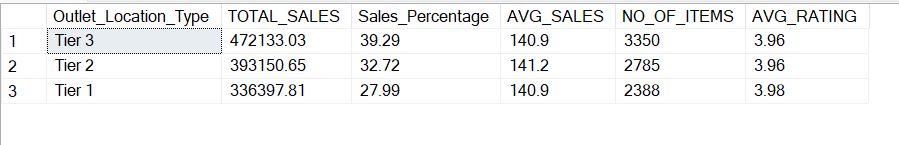
CAST(AVG(Rating) AS DECIMAL(10,2)) AS AVG\_RATING

From BlinkIT\_Data

GROUP BY Outlet\_Location\_Type

ORDER BY TOTAL\_SALES DESC

OUTPUT



SELECT Outlet\_Location\_Type,

CAST(SUM(Sales) AS DECIMAL(10,2)) AS TOTAL\_SALES,

CAST(SUM(Sales)\*100.0 / SUM(SUM(Sales)) OVER() AS DECIMAL(10,2)) AS Sales\_Percentage,

CAST(AVG(SALES) AS DECIMAL(10,1)) AS AVG\_SALES,

COUNT(\*) AS NO\_OF\_ITEMS,

CAST(AVG(Rating) AS DECIMAL(10,2)) AS AVG\_RATING

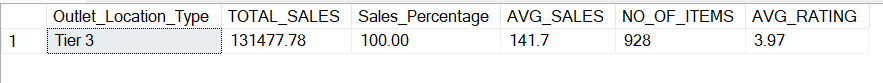
From BlinkIT\_Data

WHERE Outlet\_Establishment\_Year=2022

GROUP BY Outlet\_Location\_Type

ORDER BY TOTAL\_SALES DESC

OUTPUT



SELECT Outlet\_Type,

CAST(SUM(Sales) AS DECIMAL(10,2)) AS TOTAL\_SALES,

CAST(SUM(Sales)\*100.0 / SUM(SUM(Sales)) OVER() AS DECIMAL(10,2)) AS Sales\_Percentage,

CAST(AVG(SALES) AS DECIMAL(10,1)) AS AVG\_SALES,

COUNT(\*) AS NO\_OF\_ITEMS,

CAST(AVG(Rating) AS DECIMAL(10,2)) AS AVG\_RATING

From BlinkIT\_Data

GROUP BY Outlet\_Type

ORDER BY TOTAL\_SALES DESC

OUTPUT

