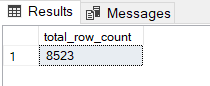
                                            BLINKIT DATA   SQL QUERIES AND RESULTS.

--1 Check the number of lines

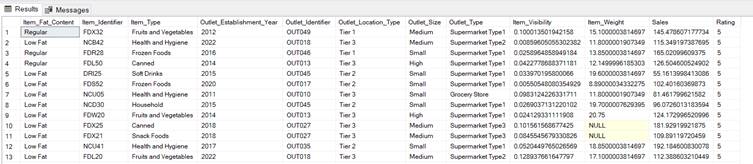
SELECT COUNT(\*) AS total\_row\_count

FROM BlinkIT\_Data



--2 Explore the data

SELECT \* FROM BlinkIT\_Data



--3 need to updae this col with the uniform value. convert lower cases to upper cases.

UPDATE BlinkIT\_Data

SET Item\_Fat\_Content = 'Low Fat'

WHERE Item\_Fat\_Content = 'low fat' OR Item\_Fat\_Content = 'LF'

--4 now we will update the other cols but with different approach, using case statements.

UPDATE BlinkIT\_Data

SET Item\_Fat\_Content =

CASE

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

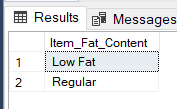
WHEN Item\_Fat\_Content  = 'reg' THEN 'Regular'

ELSE Item\_Fat\_Content

END

--5 lets check whether the values have been updated.

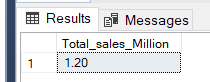
SELECT DISTINCT(Item\_Fat\_Content) FROM BlinkIT\_Data



--6 Total sales in millions

SELECT CAST(SUM(Sales)/1000000 AS DECIMAL(10,2)) AS Total\_sales\_Million

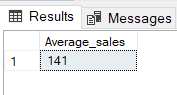
FROM BlinkIT\_Data



--7 Average Sales

SELECT ROUND(AVG(Sales),0) AS Average\_sales

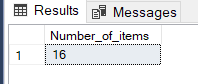
FROM BlinkIT\_Data



--8 Number of items

SELECT COUNT( DISTINCT Item\_Type) AS Number\_of\_items

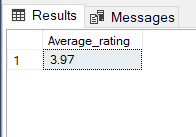
FROM BlinkIT\_Data



--9 Average Rating

SELECT CAST(AVG(Rating) AS DECIMAL(10,2)) AS Average\_rating

FROM BlinkIT\_Data

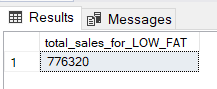


--10 Total sales for low fat items.

SELECT ROUND(SUM(Sales),0) AS total\_sales\_for\_LOW\_FAT

FROM BlinkIT\_Data

WHERE Item\_Fat\_Content = 'Low Fat'

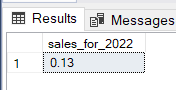


--11 Total sales for outlet establishment year (2022)

SELECT CAST(SUM(Sales)/1000000 AS decimal(10,2)) AS sales\_for\_2022

FROM BlinkIT\_Data

WHERE Outlet\_Establishment\_year = '2022'

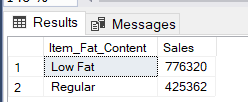


--12 Sales by fat content

SELECT Item\_Fat\_Content, ROUND(SUM(Sales),0) AS Sales

FROM BlinkIT\_Data

GROUP BY Item\_Fat\_Content



-- 13 Total Sales by item type

SELECT Item\_Type,

CAST(SUM(Sales) AS decimal(10,2)) AS Total\_Sales,

CAST(AVG(Sales) AS DECIMAL(10,1)) AS AVG\_Sales,

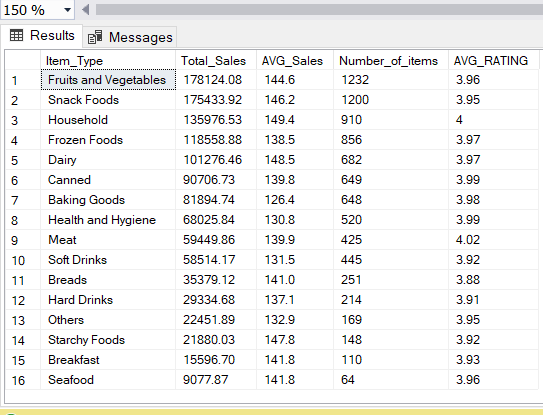
COUNT(\*) AS Number\_of\_items,

ROUND(AVG(rating),2) AS AVG\_RATING

FROM BlinkIT\_Data

GROUP BY Item\_Type

ORDER BY 2 DESC



--14 Show top 5 items by sales.

SELECT TOP 5 Item\_Type,

CAST(SUM(Sales) AS decimal(10,2)) AS Total\_Sales,

CAST(AVG(Sales) AS DECIMAL(10,1)) AS AVG\_Sales,

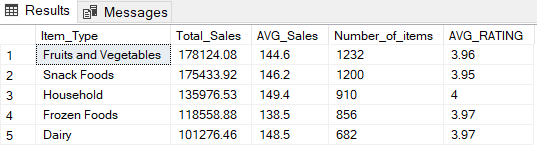
COUNT(\*) AS Number\_of\_items,

ROUND(AVG(rating),2) AS AVG\_RATING

FROM BlinkIT\_Data

GROUP BY Item\_Type

ORDER BY Total\_Sales DESC



--15 total sales, item type and outlet

SELECT Outlet\_Identifier,

Item\_Fat\_Content,

CAST(SUM(Sales) AS decimal(10,2)) AS Total\_Sales,

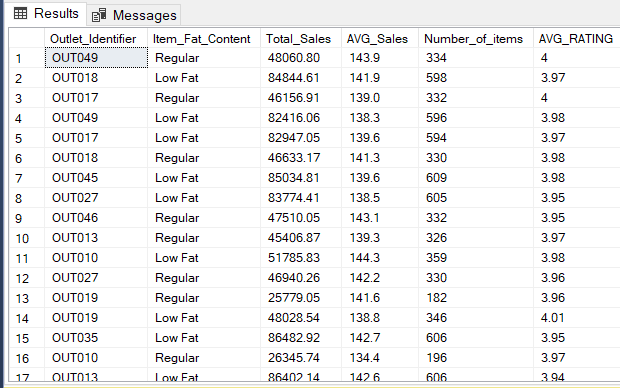
CAST(AVG(Sales) AS DECIMAL(10,1)) AS AVG\_Sales,

COUNT(\*) AS Number\_of\_items,

ROUND(AVG(rating),2) AS AVG\_RATING

FROM BlinkIT\_Data

GROUP BY Outlet\_Identifier , Item\_Fat\_Content



--16 Fat content by outlet for sales table.

-- Here we are pivoting the table.

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 SourceTable

PIVOT

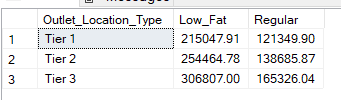
(

SUM(Total\_Sales)

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

)AS PivotTable

ORDER BY Outlet\_Location\_Type



--17 total sales by outlet establishment year.

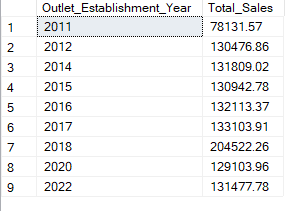
SELECT Outlet\_Establishment\_Year,

CAST(SUM(Sales) AS DECIMAL(10,2)) AS Total\_Sales

FROM BlinkIT\_Data

GROUP BY Outlet\_Establishment\_Year

ORDER BY Outlet\_Establishment\_Year ASC



--18 Sales percentage by outlet size.

SELECT OutLet\_Size,

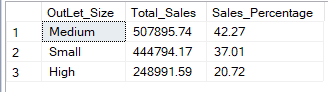
CAST(SUM(Sales) AS DECIMAL(10,2)) AS Total\_Sales,

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

FROM BlinkIT\_Data

GROUP BY Outlet\_Size

ORDER BY Total\_Sales DESC



--19 Sales by outlet location.

SELECT Outlet\_Location\_Type,

CAST(SUM(Sales) AS DECIMAL(10,2)) AS Total\_Sales,

CAST((SUM(Sales)\*100 /SUM(SUM(Sales)) OVER()) AS DECIMAL(10,2)) AS Sales\_Percentage,

CAST(AVG(Sales) AS DECIMAL(10,1)) AS Avg\_Sales,

COUNT(\*) AS numberOfItems,

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



--20 percentage of sales by outlet size.

SELECT Outlet\_Size,

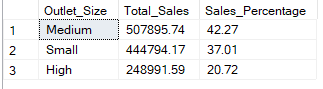
CAST(SUM(Sales) AS DECIMAL(10,2) ) AS Total\_Sales,

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

FROM BlinkIT\_Data

GROUP BY Outlet\_Size

ORDER BY Total\_sales DESC



-- 21 sales percentage by outlet location type.

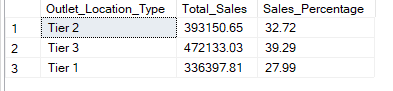
SELECT Outlet\_Location\_Type,

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

FROM BlinkIT\_Data

GROUP BY Outlet\_Location\_Type



--22 metrix by outlet type.

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

FROM BlinkIT\_Data

