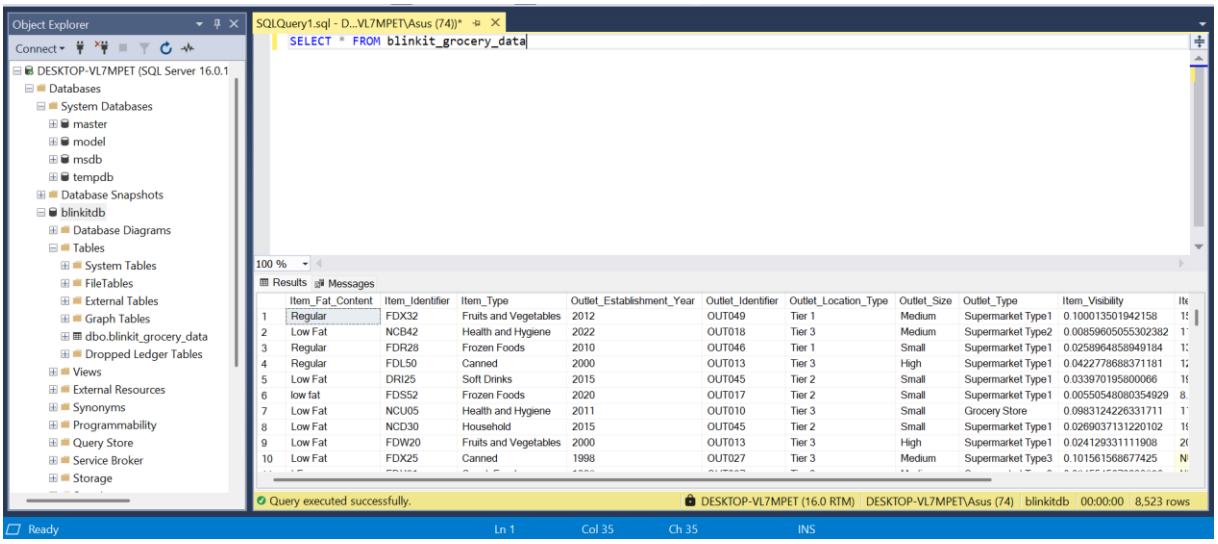
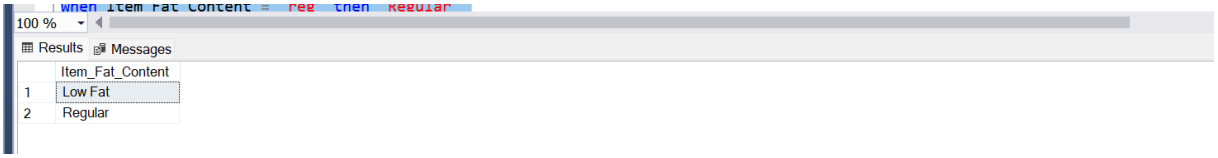
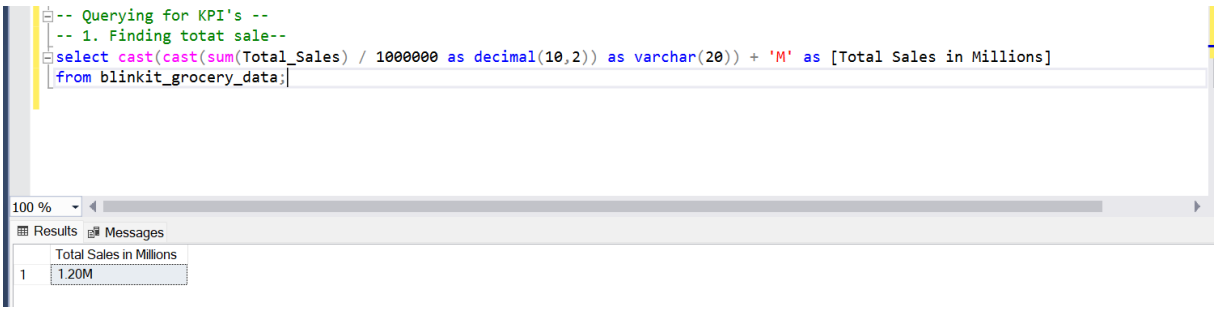
```sql
--Displaying data--
Select * from blinkit_grocery_data
```



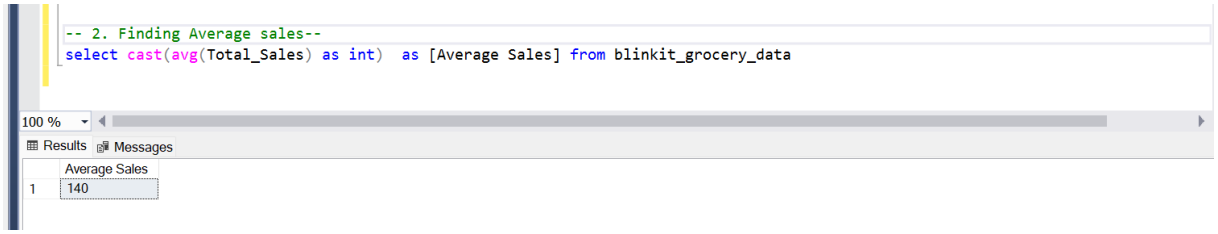

```sql
/* Cleaning the data (Data Preprocessing for the analysis)*/

-- Change the name of Item_Fat_Content values using UPDATE--
update blinkit_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

-- Checking the distinct values of Item_Fat_Content after updating--
select distinct(Item_Fat_Content) from blinkit_grocery_data
```



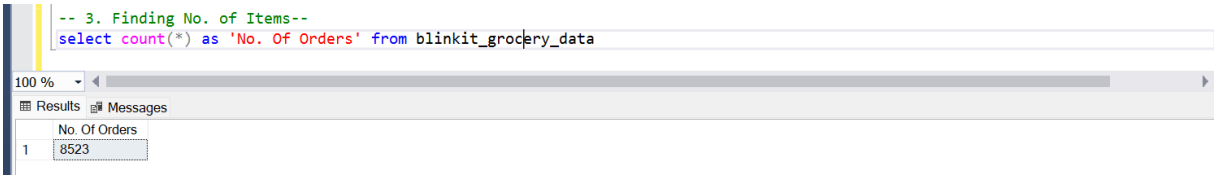

```sql
-- Querying for KPI's --
-- 1. Finding totat sale--
select cast(cast(sum(Total_Sales) / 1000000 as decimal(10,2)) as varchar(20)) +
    'M' as [Total Sales in Millions]
from blinkit_grocery_data
```



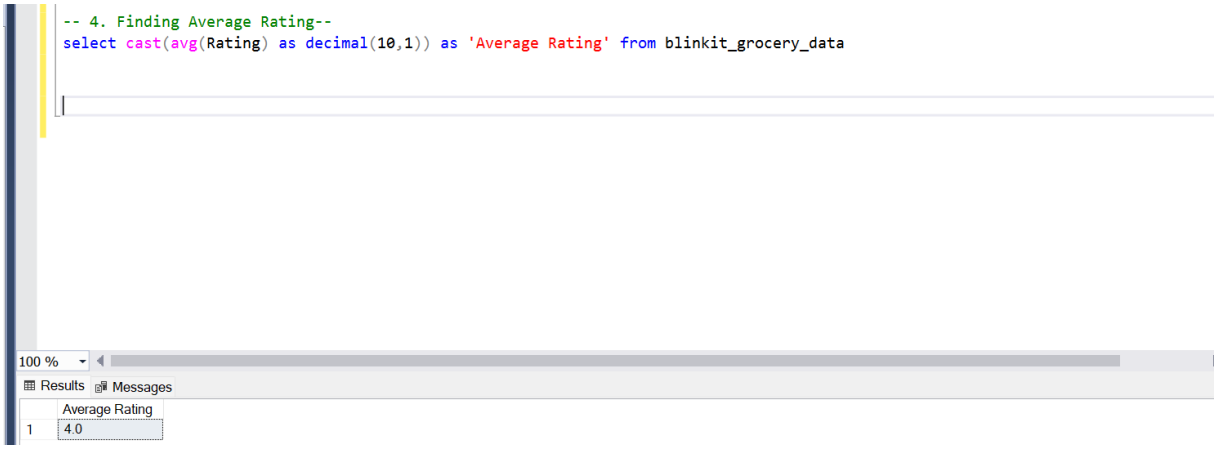
```sql
-- 2. Finding Average sales--
select cast(avg(Total_Sales) as int)  as [Average Sales] from
  blinkit_grocery_data
```




```sql
-- 3. Finding No. of Items--
select count(*) as 'No. Of Orders' from blinkit_grocery_data
```




```sql
-- 4. Finding Average Rating--
select cast(avg(Rating) as decimal(10,1)) as 'Average Rating' from
  blinkit_grocery_data
```




```sql
-- (A) Total Sales by Item_Fat_Content--
select Item_Fat_Content, cast(sum(Total_Sales) as decimal(10,2)) as 'Total
  Sales'
from blinkit_grocery_data group by Item_Fat_Content
```

```
-- (A) Total Sales by Item_Fat_Content--
select Item_Fat_Content, cast(sum(Total_Sales) as decimal(10,2)) as 'Total Sales'
from blinkit_grocery_data group by Item_Fat_Content
```

00 %

Results Messages

	Item_Fat_Content	Total Sales
1	Low Fat	776319.68
2	Regular	425361.80

```
-- (B) Total Sales by Item Type
select Item_Type, cast(sum(Total_Sales) as decimal(10,2)) as 'Total Sales'
from blinkit_grocery_data group by Item_Type order by [Total Sales] desc
```

```
-- (B) Total Sales by Item Type
select Item_Type, cast(sum(Total_Sales) as decimal(10,2)) as 'Total Sales'
from blinkit_grocery_data group by Item_Type order by [Total Sales] desc
```

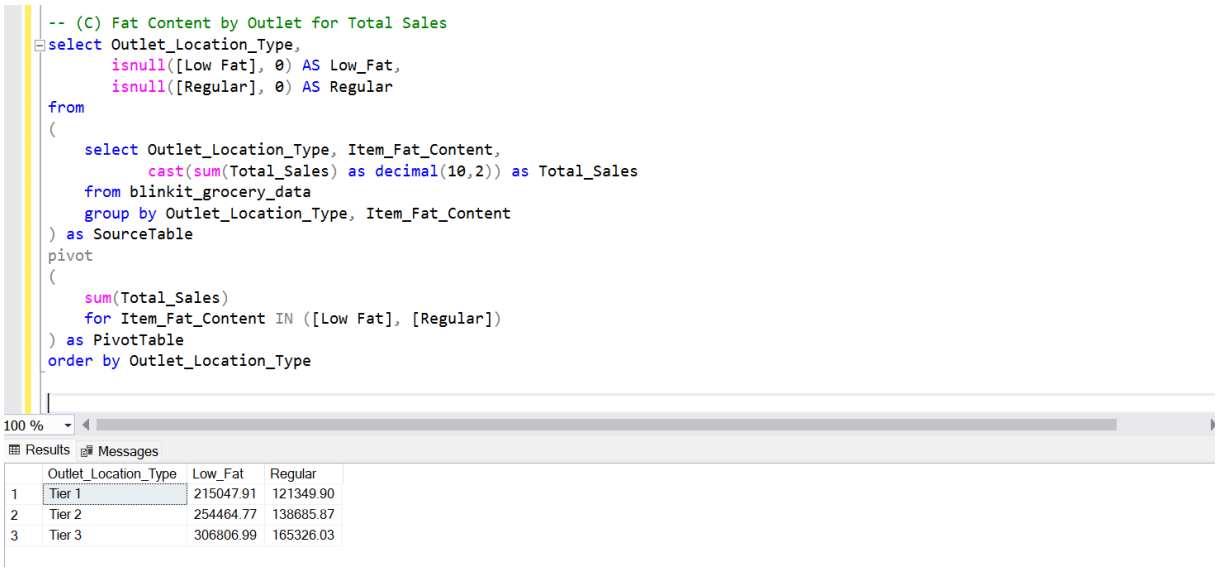
100 %

Results Messages

	Item_Type	Total Sales
1	Fruits and Vegetables	178124.08
2	Snack Foods	175433.92
3	Household	135976.53
4	Frozen Foods	118558.88
5	Dairy	101276.46
6	Canned	90706.73
7	Baking Goods	81894.74
8	Health and Hygiene	68025.84
9	Meat	59449.86
10	Soft Drinks	58514.16
11	Breads	35379.12
12	Hard Drinks	29334.68
13	Others	22451.89
14	Starchy Foods	21880.03
15	Breakfast	15596.70
16	Seafood	9077.87

```
-- (C) Fat Content by Outlet for Total Sales
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(Total_Sales) as decimal(10,2)) as Total_Sales
    from blinkit_grocery_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
```



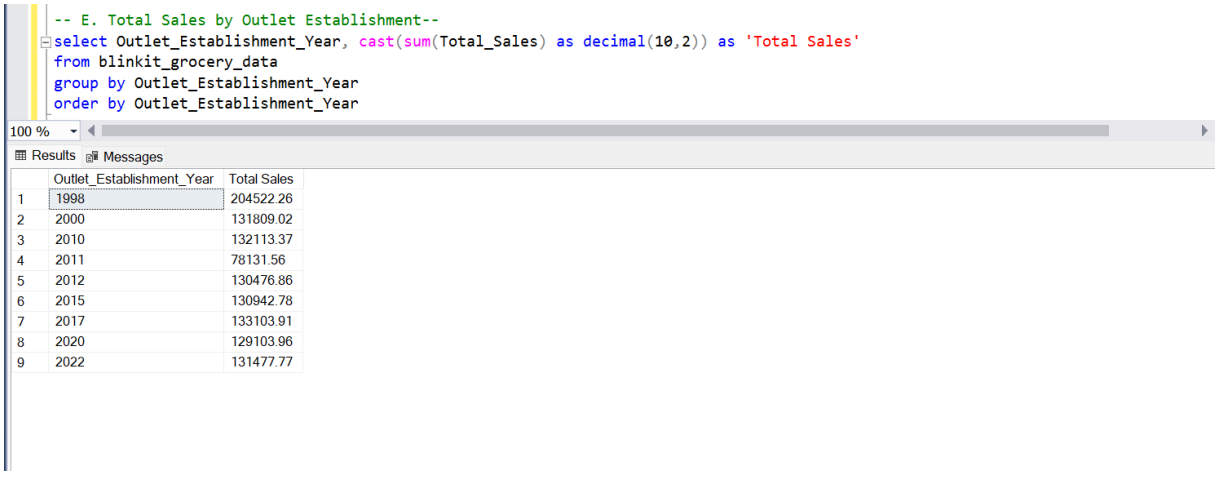
```
-- (C) Fat Content by Outlet for Total Sales
select Outlet_Location_Type,
       isnull([Low Fat], 0) AS Low_Fat,
       isnull([Regular], 0) AS Regular
from
(
    select Outlet_Location_Type, Item_Fat_Content,
           cast(sum(Total_Sales) as decimal(10,2)) as Total_Sales
    from blinkit_grocery_data
    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
```

100 %

Results Messages

	Outlet_Location_Type	Low_Fat	Regular
1	Tier 1	215047.91	121349.90
2	Tier 2	254464.77	138685.87
3	Tier 3	306806.99	165326.03

```
-- (D) Total Sales by Outlet Establishment--
select Outlet_Establishment_Year, cast(sum(Total_Sales) as decimal(10,2)) as
  'Total Sales'
from blinkit_grocery_data
group by Outlet_Establishment_Year
order by Outlet_Establishment_Year
```



```
-- E. Total Sales by Outlet Establishment--
select Outlet_Establishment_Year, cast(sum(Total_Sales) as decimal(10,2)) as 'Total Sales'
from blinkit_grocery_data
group by Outlet_Establishment_Year
order by Outlet_Establishment_Year
```

100 %

Results Messages

	Outlet_Establishment_Year	Total Sales
1	1998	204522.26
2	2000	131809.02
3	2010	132113.37
4	2011	78131.56
5	2012	130476.86
6	2015	130942.78
7	2017	133103.91
8	2020	129103.96
9	2022	131477.77

```
-- (E) Percentage of Sales by Outlet Size--
select
    Outlet_Size,
    cast(sum(Total_Sales) as decimal(10,2)) as 'Total Sales',
    cast((sum(Total_Sales) * 100.0 / sum(sum(Total_Sales)) over()) as decimal
      (10,2)) as 'Sales Percentage'
```

```
from blinkit_grocery_data
group by Outlet_Size
order by [Total Sales] desc
```

```
-- (F) Percentage of Sales by Outlet Size--
select
    Outlet_Size,
    cast(sum(Total_Sales) as decimal(10,2)) as 'Total Sales',
    cast((sum(Total_Sales) * 100.0 / sum(sum(Total_Sales)) over()) as decimal(10,2)) as 'Sales Percentage'
from blinkit_grocery_data
group by Outlet_Size
order by [Total Sales] desc
```

00 %

Results Messages

	Outlet_Size	Total Sales	Sales Percentage
1	Medium	507895.73	42.27
2	Small	444794.17	37.01
3	High	248991.58	20.72

```
-- (F) Sales by Outlet Location--
select Outlet_Location_Type, cast(sum(Total_Sales) as decimal(10,2)) as 'Total Sales'
from blinkit_grocery_data
group by Outlet_Location_Type
order by [Total Sales] desc
```

```
-- (F) Sales by Outlet Location--
select Outlet_Location_Type, cast(sum(Total_Sales) as decimal(10,2)) as 'Total Sales'
from blinkit_grocery_data
group by Outlet_Location_Type
order by [Total Sales] desc
```

100 %

Results Messages

	Outlet_Location_Type	Total Sales
1	Tier 3	472133.03
2	Tier 2	393150.64
3	Tier 1	336397.81

```
-- (G) All metrics by Outlet Type
select Outlet_Type,
    cast(sum(Total_Sales) as decimal(10,2)) as 'Total Sales',
    cast(avg(Total_Sales) as decimal(10,2)) as 'Average Sales',
    count(*) as 'No. of Items',
    cast(avg(Rating) as decimal(10,2)) as 'Average Rating',
    cast(sum(Item_Visibility) as decimal(10,2)) as 'Item Visibility'
from blinkit_grocery_data
group by Outlet_Type
order by [Total Sales] desc
```

```sql
-- (G) All metrics by Outlet Type
select Outlet_Type,
    cast(sum(Total_Sales) as decimal(10,2)) as 'Total Sales',
    cast(avg(Total_Sales) as decimal(10,2)) as 'Average Sales',
    count(*) as 'No. of Items',
    cast(avg(Rating) as decimal(10,2)) as 'Average Rating',
    cast(sum(Item_Visibility) as decimal(10,2)) as 'Item Visibility'
from blinkit_grocery_data
group by Outlet_Type
order by [Total Sales] desc
```

100 %

Results Messages

	Outlet_Type	Total Sales	Average Sales	No. of Items	Average Rating	Item Visibility
1	Supermarket Type1	787549.89	141.21	5577	3.96	338.65
2	Grocery Store	151939.15	140.29	1083	3.99	113.57
3	Supermarket Type2	131477.77	141.68	928	3.97	56.62
4	Supermarket Type3	130714.67	139.80	935	3.95	54.80