select\*from blinkit\_data

-- Null Values--

select\*from blinkit\_data

where Item\_Fat\_Content is null

or Item\_Identifier is null

or Item\_Type is null

or Outlet\_Establishment\_Year is null

or Outlet\_Identifier is null

or Outlet\_Location\_Type is null

or Outlet\_Size is null

or Outlet\_Type is null

or Item\_Visibility is null

or Item\_Weight is null

or Total\_Sales is null

or Rating is null

-- Fill Null Values --

--Method-1

select isnull(Item\_Weight,0) fill\_null from blinkit\_data -- change in new column

--Method-2

select coalesce(Item\_Weight,0) fill\_null from blinkit\_data -- change in new column

--Method-3

update blinkit\_data

set Item\_Weight=0 -- change in original column

where Item\_Weight is null

--Drop Null Values-

delete blinkit\_data

where Item\_Weight is null

-- change data type--

ALTER TABLE blinkit\_data

ALTER COLUMN Rating float;

-- --

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

select DISTINCT(Item\_Fat\_Content)

from blinkit\_data

(A) KPI's

1. TOTAL\_SALES

select cast(sum(Total\_Sales)/1000000 as decimal(10,2)) Total\_Sales\_million

from blinkit\_data

|  |
| --- |
| Total\_Sales\_million |
| 1.20 |

-- 2. AVERAGE SALES

select cast(avg(Total\_Sales) as decimal) Avg\_sales

from blinkit\_data

|  |
| --- |
| Avg\_sales |
| 141 |

-- 3. NO OF ITEMS

select count(\*) No\_Of\_Items

from blinkit\_data

|  |
| --- |
| No\_Of\_Items |
| 8523 |

-- 4. AVG RATING

select cast(avg(Rating) as decimal (10,1)) avg\_ratings

from blinkit\_data

|  |
| --- |
| avg\_ratings |
| 4.0 |

-- (B) 1. Total Sales by Fat Content:

select Item\_Fat\_Content,cast(sum(Total\_Sales) as decimal(10,2)) Total\_Sales

from blinkit\_data

group by Item\_Fat\_Content

|  |  |
| --- | --- |
| Item\_Fat\_Content | Total\_Sales |
| Low Fat | 776319.68 |
| Regular | 425361.80 |

--- 2. Total Sales by Item Type:

select Item\_Type,cast(sum(Total\_Sales) as decimal(10,2)) Total\_Sales

from blinkit\_data

group by Item\_Type

|  |  |
| --- | --- |
| Item\_Type | Total\_Sales |
| Snack Foods | 175433.92 |
| Seafood | 9077.87 |
| Breads | 35379.12 |
| Canned | 90706.73 |
| Dairy | 101276.46 |
| Baking Goods | 81894.74 |
| Others | 22451.89 |
| Breakfast | 15596.70 |
| Fruits and Vegetables | 178124.08 |
| Frozen Foods | 118558.88 |
| Health and Hygiene | 68025.84 |
| Meat | 59449.86 |
| Starchy Foods | 21880.03 |
| Soft Drinks | 58514.16 |
| Hard Drinks | 29334.68 |
| Household | 135976.53 |

-- 3. Fat Content by Outlet for Total Sales:

-- Method 1

select Outlet\_Location\_Type,Item\_Fat\_Content,sum(Total\_Sales)

from blinkit\_data

group by Item\_Fat\_Content,Outlet\_Location\_Type

|  |  |  |
| --- | --- | --- |
| Outlet\_Location\_Type | Item\_Fat\_Content | (No column name) |
| Tier 1 | Regular | 121349.899555206 |
| Tier 2 | Low Fat | 254464.77338028 |
| Tier 3 | Low Fat | 306806.99196434 |
| Tier 1 | Low Fat | 215047.91230011 |
| Tier 3 | Regular | 165326.034713745 |
| Tier 2 | Regular | 138685.868053436 |

**-- With Pivot**

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\_data

group by Outlet\_Location\_Type,Item\_Fat\_Content

)AS source\_table

pivot

(

sum(Total\_Sales)

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

) AS pivot\_table

order by Outlet\_Location\_Type desc

|  |  |  |
| --- | --- | --- |
| Outlet\_Location\_Type | Low\_Fat | Regular |
| Tier 3 | 306806.99 | 165326.03 |
| Tier 2 | 254464.77 | 138685.87 |
| Tier 1 | 215047.91 | 121349.90 |

-- 4. Total Sales by Outlet Establishment:

select

Outlet\_Establishment\_Year,

cast(sum(Total\_Sales) as decimal(10,2)) Outlet\_Establishment

from blinkit\_data

group by Outlet\_Establishment\_Year

|  |  |
| --- | --- |
| Outlet\_Establishment\_Year | Outlet\_Establishment |
| 1998 | 204522.26 |
| 2010 | 132113.37 |
| 2022 | 131477.77 |
| 2000 | 131809.02 |
| 2020 | 129103.96 |
| 2011 | 78131.56 |
| 2017 | 133103.91 |
| 2012 | 130476.86 |
| 2015 | 130942.78 |

-- 5. Percentage of Sales by Outlet Size:

select Outlet\_Size,cast(sum(Total\_Sales) as decimal (10,2)) Total\_Sales,

cast(sum(Total\_Sales) \*100/ sum(sum(Total\_Sales)) over() as decimal (10,2)) Percentage

from blinkit\_data

group by Outlet\_Size

order by Total\_Sales desc

|  |  |  |
| --- | --- | --- |
| Outlet\_Size | Total\_Sales | Percentage |
| Medium | 507895.73 | 42.27 |
| Small | 444794.17 | 37.01 |
| High | 248991.58 | 20.72 |

-- 6. Sales by Outlet Location:

select Outlet\_Location\_Type,cast(sum(Total\_Sales) as decimal(10,2)) total\_sales

from blinkit\_data

group by Outlet\_Location\_Type

order by total\_sales desc

|  |
| --- |
| Outlet\_Location\_Type total\_sales |
| Tier 3 472133.03 |
| Tier 2 393150.64 |
| Tier 1 336397.81 |
|  |

-- 7. All Metrics by Outlet Type:

select Outlet\_Type,cast(sum(Total\_sales) as decimal(10,2)) Sales

from blinkit\_data

group by Outlet\_Type

order by Sales desc

|  |  |
| --- | --- |
| Outlet\_Type | Sales |
| Supermarket Type1 | 787549.89 |
| Grocery Store | 151939.15 |
| Supermarket Type2 | 131477.77 |
| Supermarket Type3 | 130714.67 |

**THANK YOU**