BlinkIt Data-Analysis

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KPI's Requirements

```
# first step is Data Cleaning

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;
```

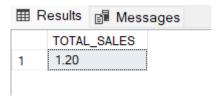
After executing this query check the data has been cleaned or not using below query

SELECT DISTINCT Item Fat Content FROM [BlinkIt Dataset]



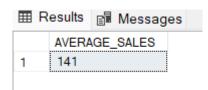
1. Sum of total sales in millions

SELECT CAST(SUM(Total_Sales)/1000000 AS DECIMAL(10,2)) AS TOTAL_SALES FROM [BlinkIt Dataset]



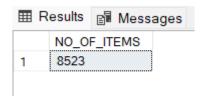
2. Average Sales

SELECT CAST(AVG(TOTAL SALES) AS DECIMAL(10,1)) AS AVERAGE SALES FROM [BlinkIt Dataset]



3. Number Of Items

SELECT COUNT(*) AS NO OF ITEMS FROM [BlinkIt Dataset]



4. Average Ratings

SELECT CAST(AVG(RATING) AS DECIMAL(10,2)) AS AVG_RATING FROM[BlinkIt Dataset]



/* Granular Requirements */

5. Total Sales by Fat_Content

```
SELECT Item_Fat_Content ,
    CAST(SUM(Total_Sales)AS DECIMAL(10,2)) AS TOTAL_SALES,
    CAST(AVG(Total_Sales) AS DECIMAL(10,0)) AS AVERAGE_SALES,
    COUNT(*)AS NO_OF_ITEMS,
    CAST(AVG(Rating) AS DECIMAL (10,2))AS AVERAGE_RATING
```

FROM [BlinkIt Dataset]
GROUP BY ITEM_FAT_CONTENT
ORDER BY ITEM FAT CONTENT DESC

⊞ F	Results 🗐 Messa	ges			
	Item_Fat_Content	TOTAL_SALES	AVERAGE_SALES	NO_OF_ITEMS	AVERAGE_RATING
1	Regular	425361.80	142	3006	3.97
2	Low Fat	776319.69	141	5517	3.97

/* for establishment year 2020 */

```
FROM [BlinkIt Dataset]
WHERE Outlet_Establishment_Year = 2020
GROUP BY ITEM_FAT_CONTENT
ORDER BY ITEM_FAT_CONTENT DESC
```


	Item_Fat_Content	TOTAL_SALES	AVERAGE_SALES	NO_OF_ITEMS	AVERAGE_RATING
1	Regular	46156.91	139	332	4.00
2	Low Fat	82947.05	140	594	3.97

/*Total Sales By Item Type */

!!!!	Results		Messages
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	Item_Type	TOTAL_SALES	AVERAGE_SALES	NO_OF_ITEMS	AVERAGE_RATING
1	Snack Foods	175433.92	146	1200	3.95
2	Seafood	9077.87	142	64	3.96
3	Breads	35379.12	141	251	3.88
4	Canned	90706.73	140	649	3.99
5	Dairy	101276.46	148	682	3.97
6	Baking Goods	81894.74	126	648	3.98
7	Others	22451.89	133	169	3.95
8	Breakfast	15596.70	142	110	3.93
9	Fruits and Vegetables	178124.08	145	1232	3.96
10	Frozen Foods	118558.88	139	856	3.97
11	Health and Hygiene	68025.84	131	520	3.99
12	Meat	59449.86	140	425	4.02
13	Starchy Foods	21880.03	148	148	3.92

/* Top 5 Item Type */

Item_Type TOTAL_SALES AVERAGE_SALES NO_OF_ITEMS AVERAGE_RATING Snack Foods 175433.92 1200 1 146 3.95 2 Seafood 9077.87 142 64 3.96 Breads 35379.12 141 251 3.88 3 Canned 90706.73 140 649 3.99 4 101276.46 148 682 3.97 5 Dairy

/* Fat Content By Outlet For Total Sales */

■ R	esults	Messages					
	Outlet_	Location_Type	Item_Fat_Content	TOTAL_SALES	AVERAGE_SALES	NO_OF_ITEMS	AVERAGE_RATING
1	Tier 1		Regular	121349.90	143	848	3.97
2	Tier 1		Low Fat	215047.91	140	1540	3.98
3	Tier 2		Regular	138685.87	142	976	3.95
4	Tier 2		Low Fat	254464.78	141	1809	3.97
5	Tier 3		Regular	165326.04	140	1182	3.97
6	Tier 3		Low Fat	306807.00	142	2168	3.96

/* Total Sales by outlet Establishment */

SELECT OUTLET_ESTABLISHMENT_YEAR,

CAST(SUM(TOTAL_SALES) AS DECIMAL(10,2)) AS TOTAL_SALES
FROM [BlinkIt Dataset]
GROUP BY OUTLET_ESTABLISHMENT_YEAR
ORDER BY OUTLET ESTABLISHMENT YEAR ASC;

⊞R	esults 🗐 Messages	
	OUTLET_ESTABLISHMENT_YEAR	TOTAL_SALES
1	2011	78131.57
2	2012	130476.86
3	2014	131809.02
4	2015	130942.78
5	2016	132113.37
6	2017	133103.91
7	2018	204522.26
8	2020	129103.96
9	2022	131477.78

/* 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 Dataset]

GROUP BY OUTLET_SIZE

ORDER BY TOTAL_SALES DESC;

⊞ F	Results 📑 Mes	sages	
	OUTLET_SIZE	TOTAL_SALES	SALES_PERCENTAGE
1	Medium	507895.74	42.27
2	Small	444794.17	37.01
3	High	248991.59	20.72

/* Sales by outlet Location */

SELECT OUTLET_LOCATION_TYPE,

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,

CAST(AVG(TOTAL 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 Dataset]

GROUP BY OUTLET_LOCATION_TYPE

ORDER BY TOTAL_SALES DESC;

⊞ F	Results 🗐 Messages					
	OUTLET_LOCATION_TYPE	TOTAL_SALES	SALES_PERCENTAGE	AVG_SALES	NO_OF_ITEMS	AVG_RATING
1	Tier 3	472133.03	39.29	140.9	3350	3.96
2	Tier 2	393150.65	32.72	141.2	2785	3.96
3	Tier 1	336397.81	27.99	140.9	2388	3.98

/* All metrics by Outlet Type */

SELECT OUTLET_TYPE,

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,

CAST(AVG(TOTAL_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 Dataset]

GROUP BY OUTLET_TYPE

ORDER BY TOTAL_SALES DESC;

OUTLET_TYPE TOTAL_SALES SALES_PERCENTAGE AVG_SALES NO_OF_ITEMS AVG_RATING Supermarket Type1 787549.89 65.54 141.2 5577 3.96 2 12.64 140.3 1083 3.99 Grocery Store 151939.15 3 Supermarket Type2 131477.78 10.94 141.7 928 3.97 4 Supermarket Type3 130714.67 10.88 139.8 935 3.95

If you want more information you can get from this BlinkIt dataset using SQL Query.