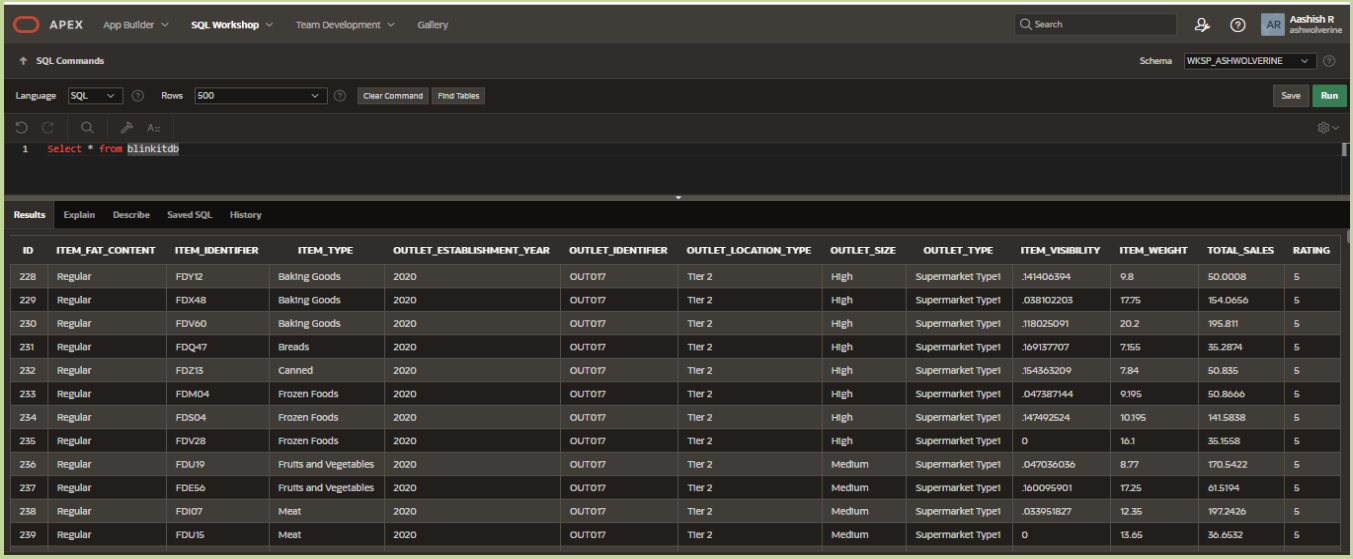
Blinkit Data Analysis SQL Project

Step 1: Check Entire table for data:



ID	ITEM_FAT_CONTENT	ITEM_IDENTIFIER	ITEM_TYPE	OUTLET_ESTABLISHMENT_YEAR	OUTLET_IDENTIFIER	OUTLET_LOCATION_TYPE	OUTLET_SIZE	OUTLET_TYPE	ITEM_VISIBILITY	ITEM_WEIGHT	TOTAL_SALES	RATING
228	Regular	FDY12	Baking Goods	2020	OUT017	Tier 2	High	Supermarket Type1	.141406394	9.8	50.0008	5
229	Regular	FDX48	Baking Goods	2020	OUT017	Tier 2	High	Supermarket Type1	.038102203	17.75	164.0656	5
230	Regular	FDV60	Baking Goods	2020	OUT017	Tier 2	High	Supermarket Type1	.118025091	20.2	195.811	5
231	Regular	FDQ47	Breads	2020	OUT017	Tier 2	High	Supermarket Type1	.169137707	7.155	35.2874	5
232	Regular	FDZ13	Canned	2020	OUT017	Tier 2	High	Supermarket Type1	.154363209	7.84	50.835	5
233	Regular	FDM04	Frozen Foods	2020	OUT017	Tier 2	High	Supermarket Type1	.047387144	9.195	50.8666	5
234	Regular	FDS04	Frozen Foods	2020	OUT017	Tier 2	High	Supermarket Type1	.147492524	10.195	141.5838	5
235	Regular	FDV28	Frozen Foods	2020	OUT017	Tier 2	High	Supermarket Type1	0	16.1	35.1558	5
236	Regular	FDU19	Fruits and Vegetables	2020	OUT017	Tier 2	Medium	Supermarket Type1	.047036036	8.77	170.5422	5
237	Regular	FDE56	Fruits and Vegetables	2020	OUT017	Tier 2	Medium	Supermarket Type1	.160095901	17.25	61.5194	5
238	Regular	FDI07	Meat	2020	OUT017	Tier 2	Medium	Supermarket Type1	.033951827	12.35	197.2426	5
239	Regular	FDU15	Meat	2020	OUT017	Tier 2	Medium	Supermarket Type1	0	13.65	36.6532	5

Step 2: How many rows are in the data:

Step 3: Data cleaning the entire data (Some irregular names in the data):

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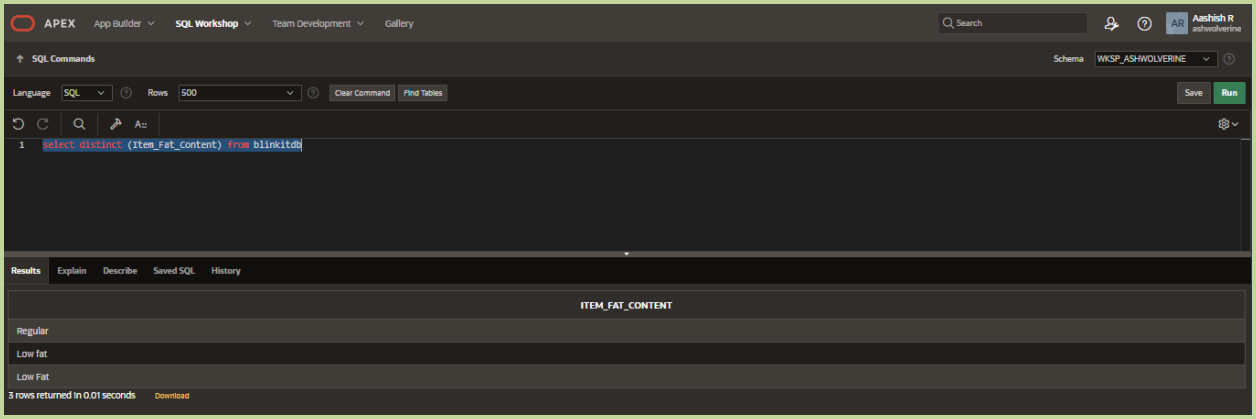
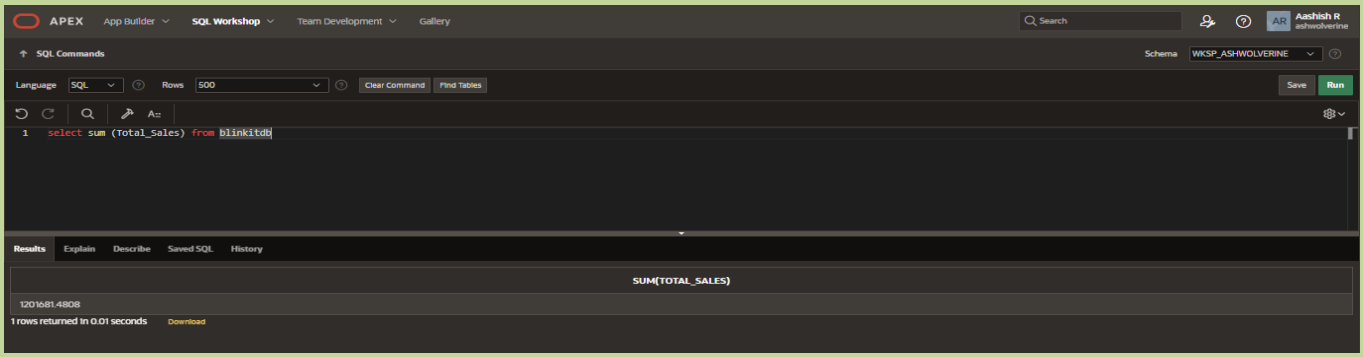
Step 4: Check the duplicates are in the data:



Start the requirements Queries:

Total Sales:



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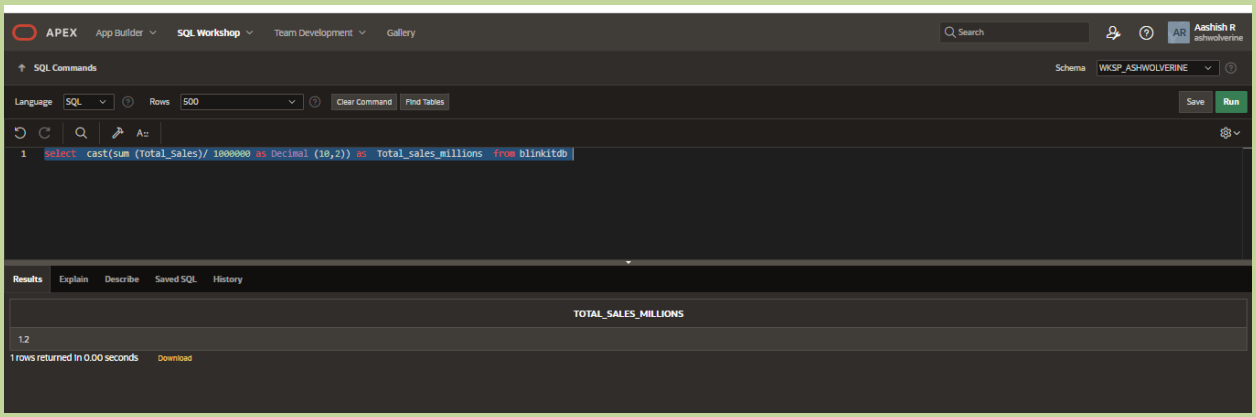
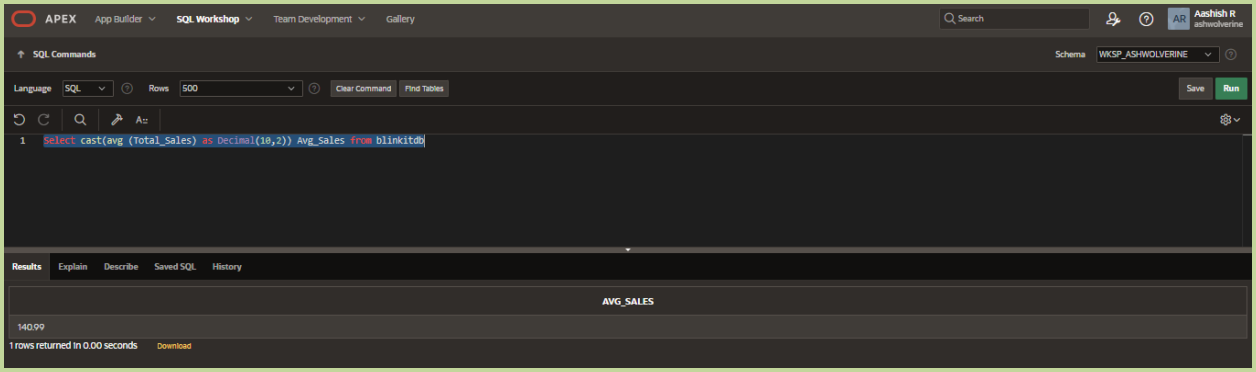


Average Sales:



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Number of Items:

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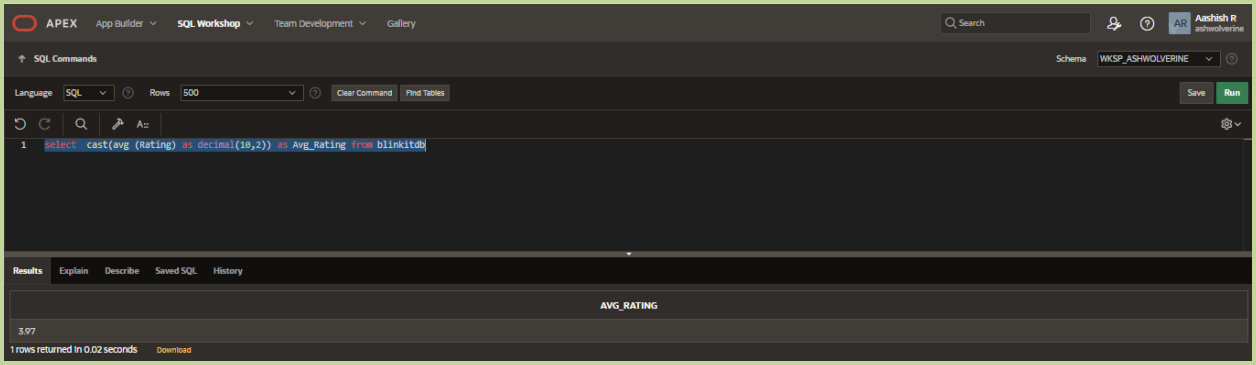
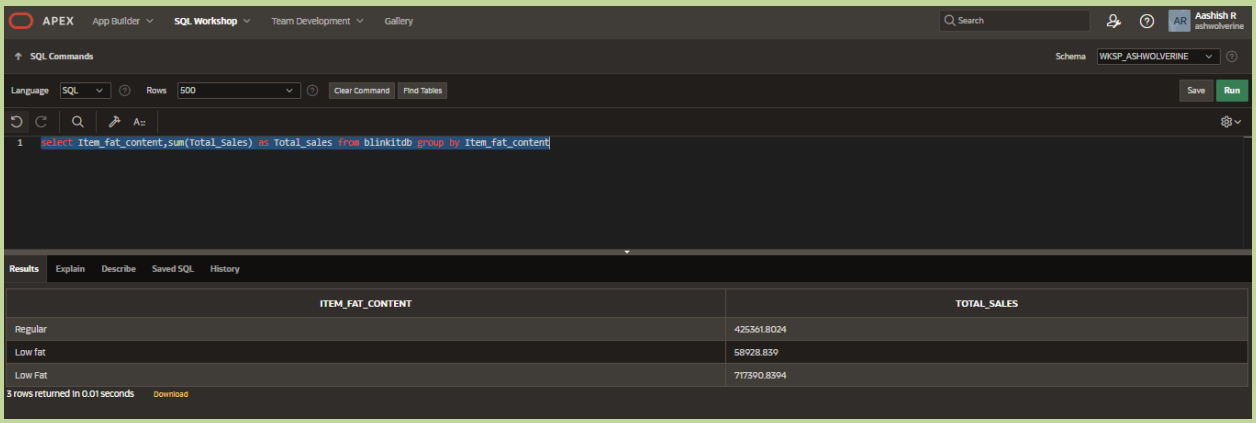
Blinkit Data Analysis SQL Project

Average Rating:

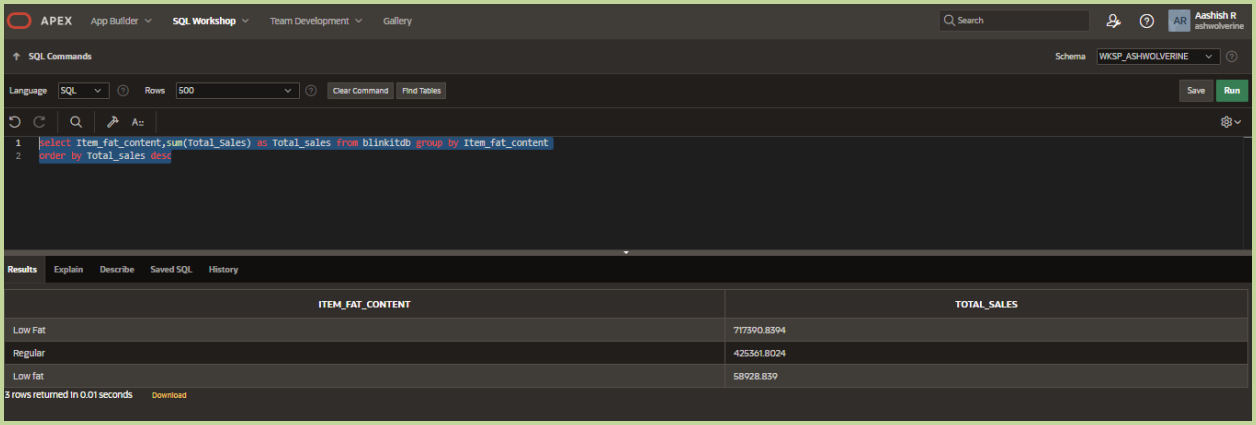


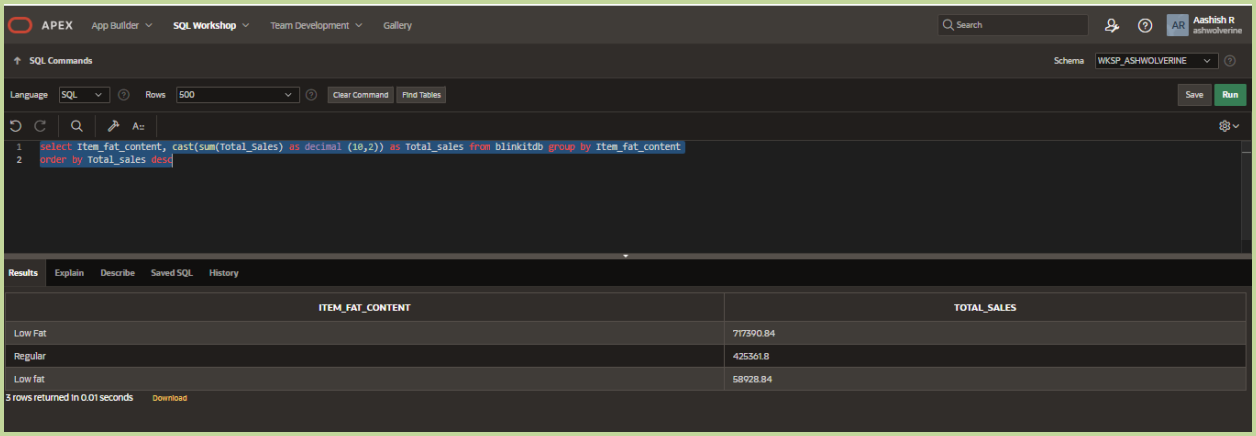
Granular Requirements

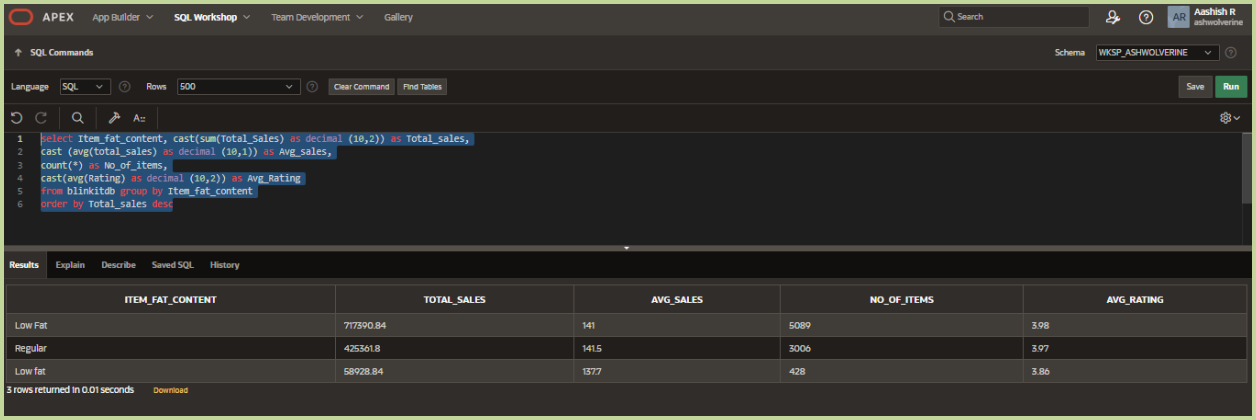
Total Sales by Fat Content:



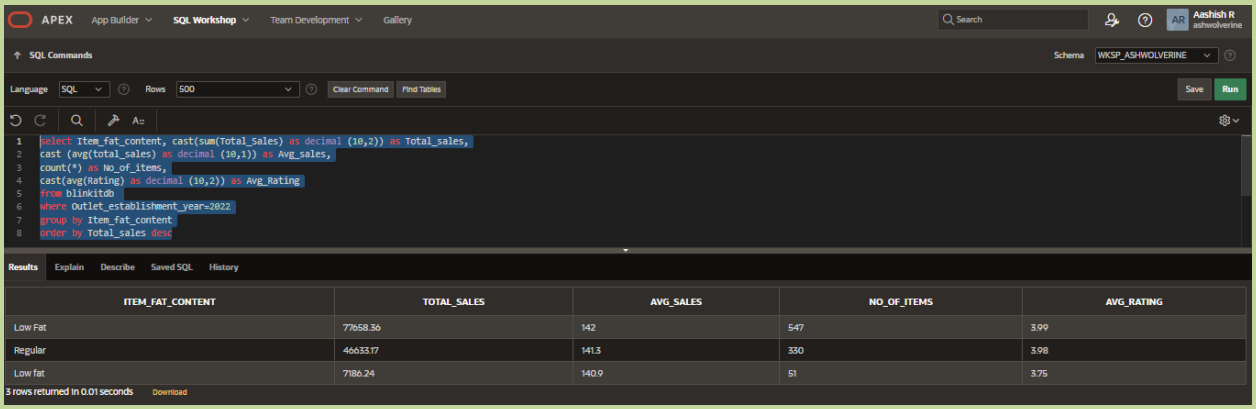
Blinkit Data Analysis SQL Project







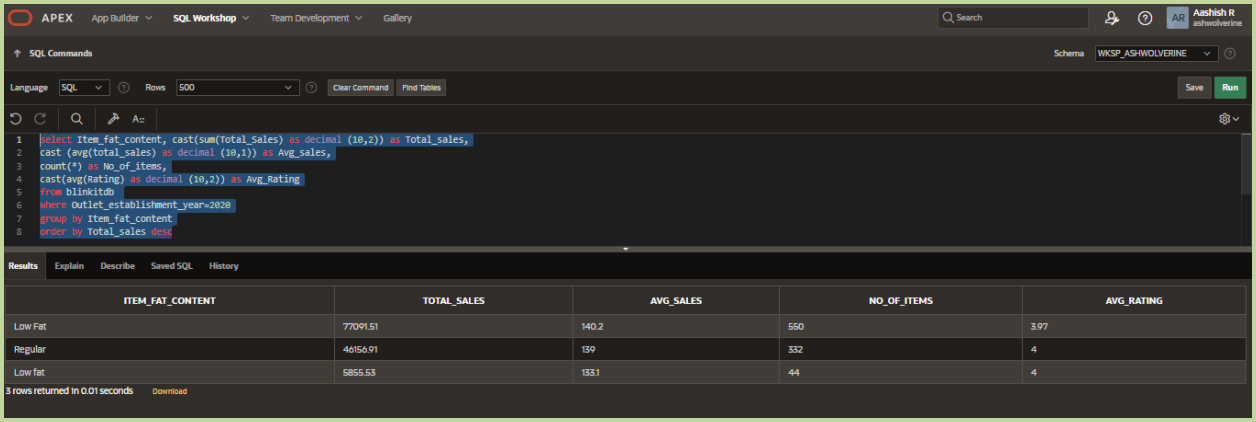
Blinkit Data Analysis SQL Project



```
select Item_fat_content, cast(sum(Total_Sales) as decimal (10,2)) as Total_sales,
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 blinkitdb
where Outlet_establishment_year=2022
group by Item_fat_content
order by Total_sales desc
```

ITEM_FAT_CONTENT	TOTAL_SALES	AVG_SALES	NO_OF_ITEMS	AVG_RATING
Low Fat	77658.36	142	547	3.99
Regular	46633.17	141.3	330	3.98
Low fat	7186.24	140.9	51	3.75

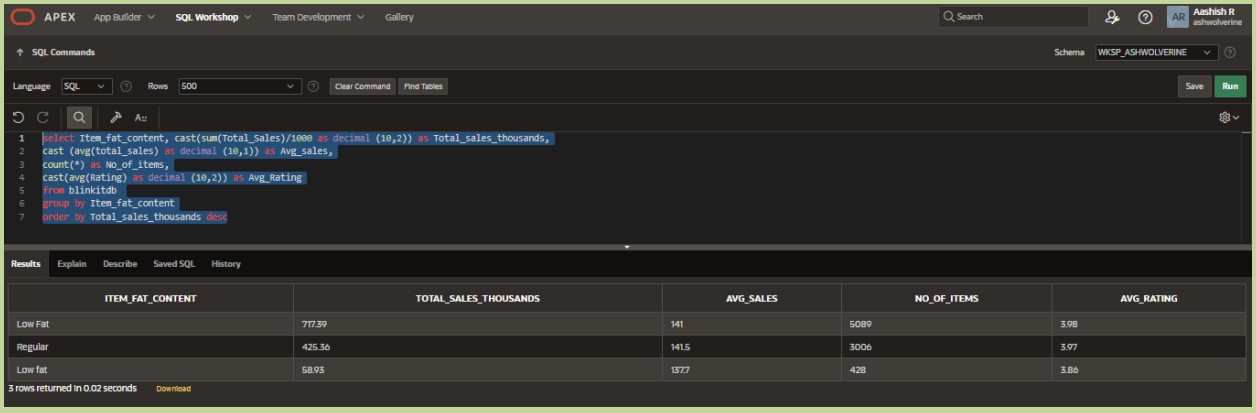
3 rows returned in 0.01 seconds Download



```
select Item_fat_content, cast(sum(Total_Sales) as decimal (10,2)) as Total_sales,
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 blinkitdb
where Outlet_establishment_year=2020
group by Item_fat_content
order by Total_sales desc
```

ITEM_FAT_CONTENT	TOTAL_SALES	AVG_SALES	NO_OF_ITEMS	AVG_RATING
Low Fat	77091.51	140.2	550	3.97
Regular	46156.91	139	332	4
Low fat	5855.53	133.1	44	4

3 rows returned in 0.01 seconds Download



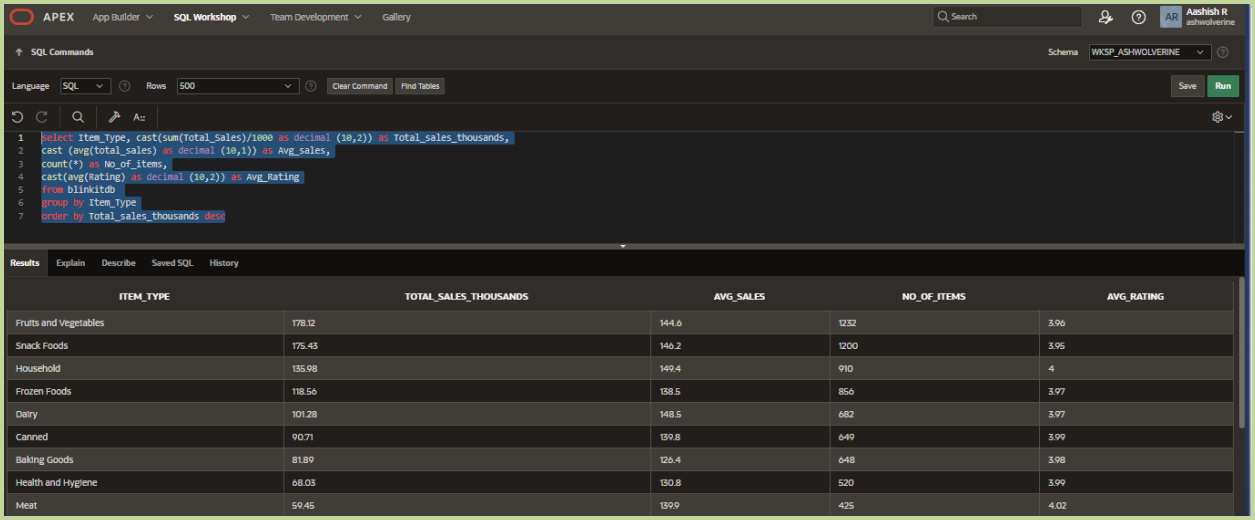
```
select Item_fat_content, cast(sum(Total_Sales)/1000 as decimal (10,2)) as Total_sales_thousands,
cast (avg(total_sales) as decimal (10,1)) as Avg_sales,
count(*) as No_of_items,
cast(avg(Rating) as decimal (10,2)) as Avg_Rating
from blinkitdb
group by Item_fat_content
order by Total_sales_thousands desc
```

ITEM_FAT_CONTENT	TOTAL_SALES_THOUSANDS	AVG_SALES	NO_OF_ITEMS	AVG_RATING
Low Fat	717.39	141	5089	3.98
Regular	425.36	141.5	3006	3.97
Low fat	58.93	137.7	428	3.86

3 rows returned in 0.02 seconds Download

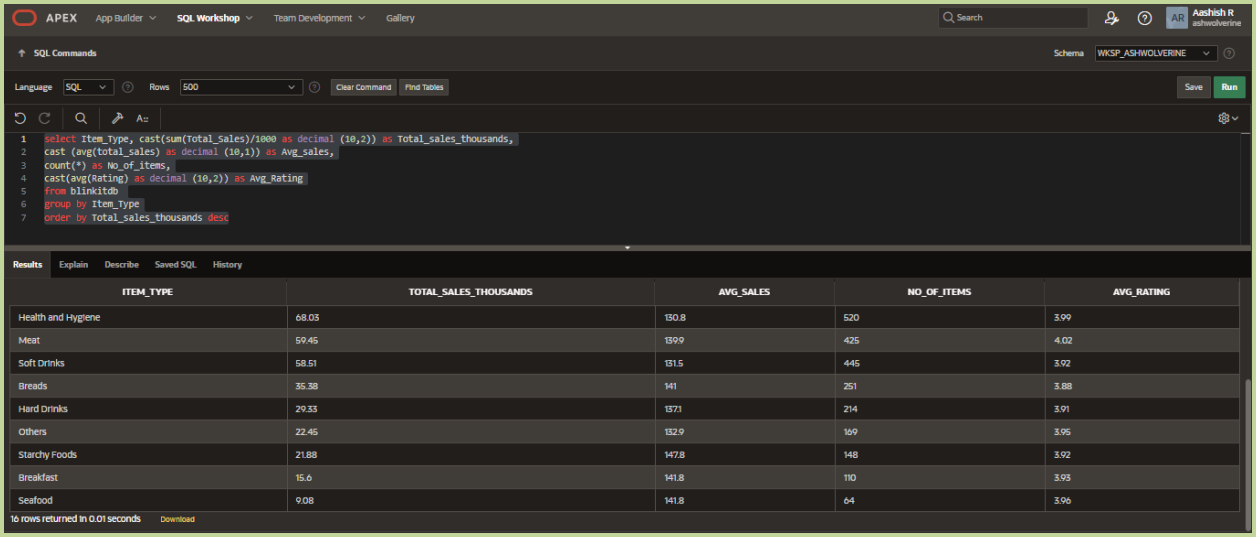
Blinkit Data Analysis SQL Project

Total Sales by item type:



```
select Item_Type, cast(sum(Total_Sales)/1000 as decimal (10,2)) as Total_sales_thousands,
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 blinkitdb
group by Item_Type
order by Total_sales_thousands desc
```

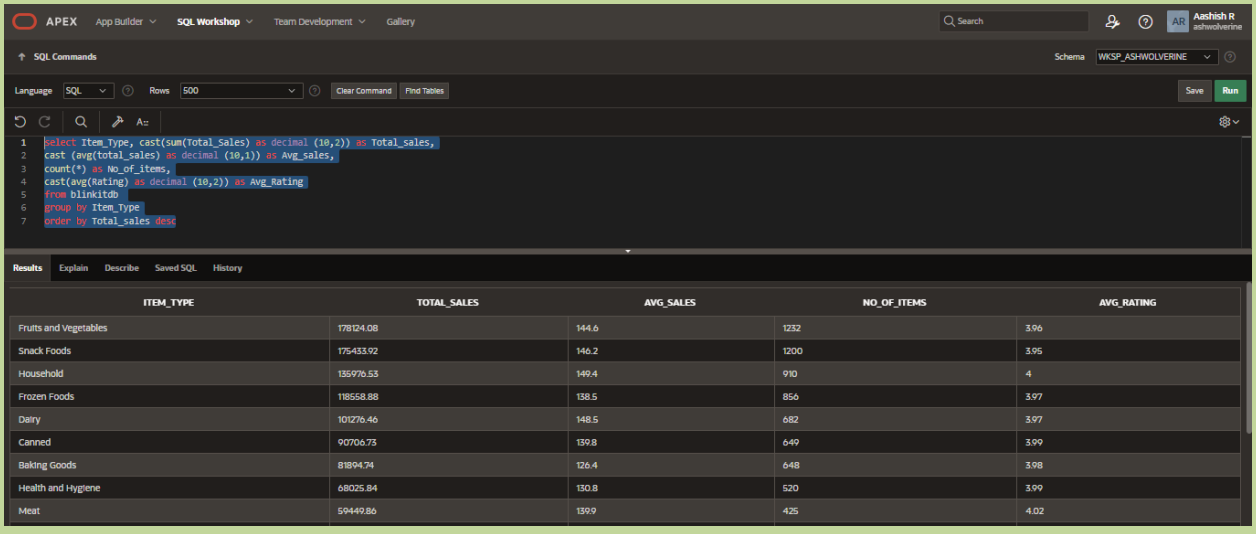
ITEM_TYPE	TOTAL_SALES_THOUSANDS	AVG_SALES	NO_OF_ITEMS	AVG_RATING
Fruits and Vegetables	178.12	144.6	1232	3.96
Snack Foods	175.43	146.2	1200	3.95
Household	135.98	149.4	910	4
Frozen Foods	118.56	138.5	856	3.97
Dairy	101.28	148.5	682	3.97
Canned	90.71	139.8	649	3.99
Baking Goods	81.89	126.4	648	3.98
Health and Hygiene	68.03	130.8	520	3.99
Meat	59.45	139.9	425	4.02



```
select Item_Type, cast(sum(Total_Sales)/1000 as decimal (10,2)) as Total_sales_thousands,
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 blinkitdb
group by Item_Type
order by Total_sales_thousands desc
```

ITEM_TYPE	TOTAL_SALES_THOUSANDS	AVG_SALES	NO_OF_ITEMS	AVG_RATING
Health and Hygiene	68.03	130.8	520	3.99
Meat	59.45	139.9	425	4.02
Soft Drinks	58.51	131.5	445	3.92
Breads	35.38	141	251	3.88
Hard Drinks	29.33	137.1	214	3.91
Others	22.45	132.9	169	3.95
Starchy Foods	21.88	147.8	148	3.92
Breakfast	15.6	141.8	110	3.93
Seafood	9.08	141.8	64	3.96

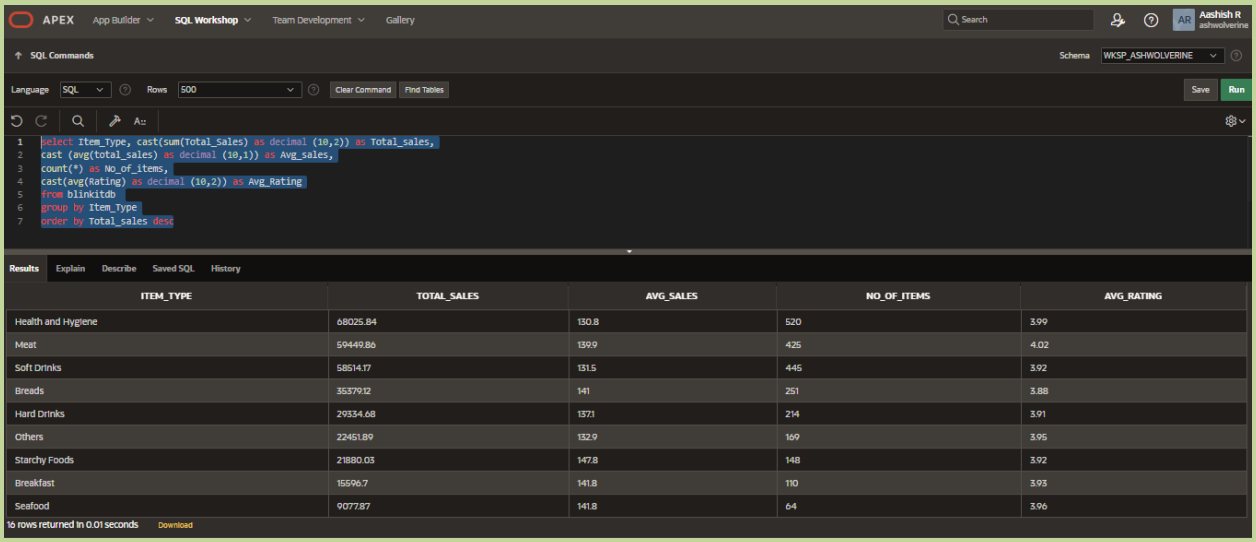
16 rows returned in 0.01 seconds Download



```
select Item_Type, cast(sum(Total_Sales) as decimal (10,2)) as Total_sales,
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 blinkitdb
group by Item_Type
order by Total_sales desc
```

ITEM_TYPE	TOTAL_SALES	AVG_SALES	NO_OF_ITEMS	AVG_RATING
Fruits and Vegetables	178124.08	144.6	1232	3.96
Snack Foods	175433.92	146.2	1200	3.95
Household	135976.53	149.4	910	4
Frozen Foods	118558.88	138.5	856	3.97
Dairy	101276.46	148.5	682	3.97
Canned	90706.73	139.8	649	3.99
Baking Goods	81894.74	126.4	648	3.98
Health and Hygiene	68025.84	130.8	520	3.99
Meat	59449.86	139.9	425	4.02

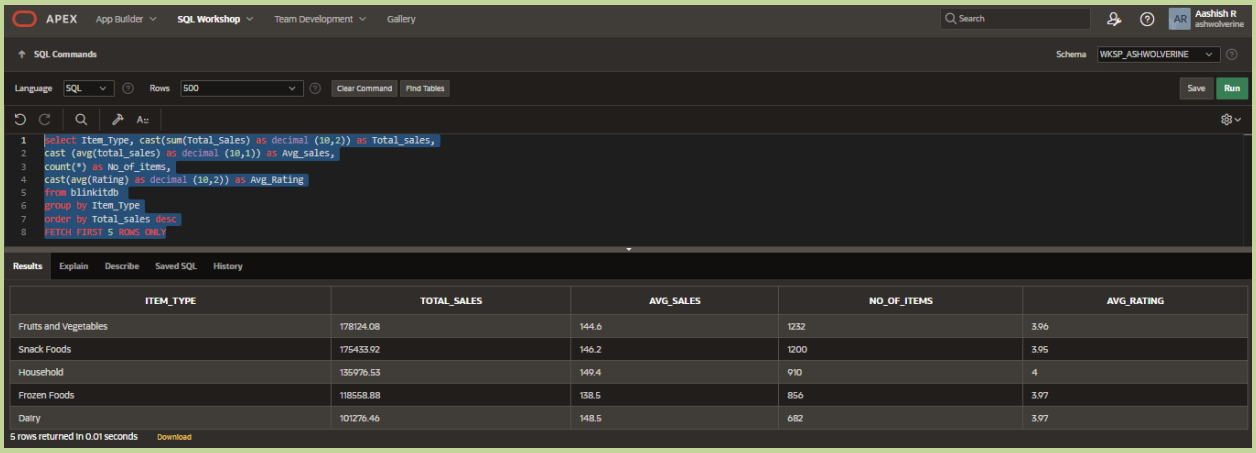
Blinkit Data Analysis SQL Project



```
select Item_Type, cast(sum(Total_Sales) as decimal (10,2)) as Total_sales,
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 blinkitdb
group by Item_Type
order by Total_sales desc
```

ITEM_TYPE	TOTAL_SALES	AVG_SALES	NO_OF_ITEMS	AVG_RATING
Health and Hygiene	68025.84	130.8	520	3.99
Meat	59449.86	139.9	425	4.02
Soft Drinks	58514.17	131.5	445	3.92
Breads	35379.12	141	251	3.88
Hard Drinks	29334.68	137.1	214	3.91
Others	22451.89	132.9	169	3.95
Starchy Foods	21880.03	147.8	148	3.92
Breakfast	15596.7	141.8	110	3.93
Seafood	9077.87	141.8	64	3.96

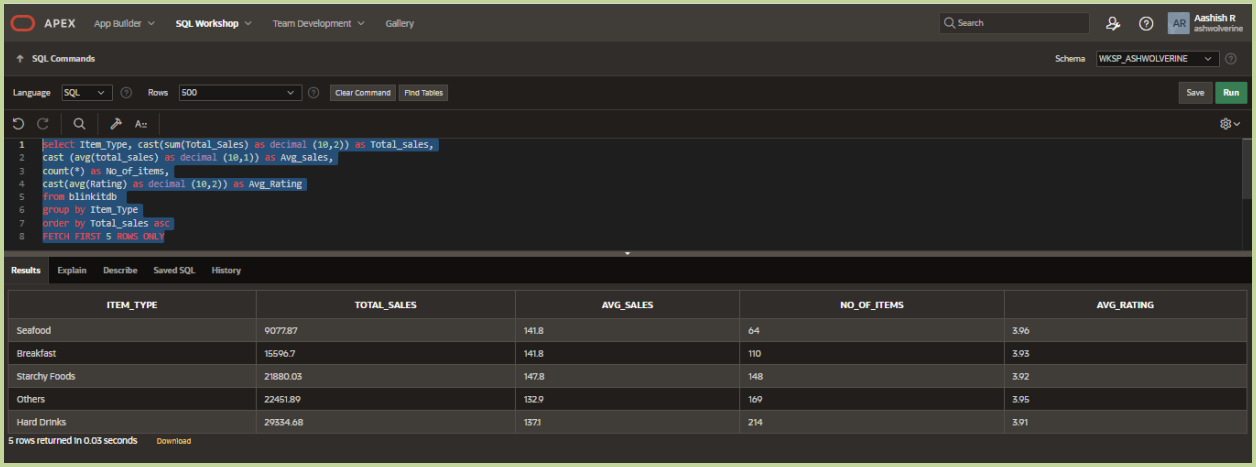
16 rows returned in 0.01 seconds Download



```
select Item_Type, cast(sum(Total_Sales) as decimal (10,2)) as Total_sales,
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 blinkitdb
group by Item_Type
order by Total_sales desc
FETCH FIRST 5 ROWS ONLY
```

ITEM_TYPE	TOTAL_SALES	AVG_SALES	NO_OF_ITEMS	AVG_RATING
Fruits and Vegetables	178124.08	144.6	1232	3.96
Snack Foods	175433.92	146.2	1200	3.95
Household	135976.53	149.4	910	4
Frozen Foods	118568.88	138.5	856	3.97
Dairy	101276.46	148.5	682	3.97

5 rows returned in 0.01 seconds Download



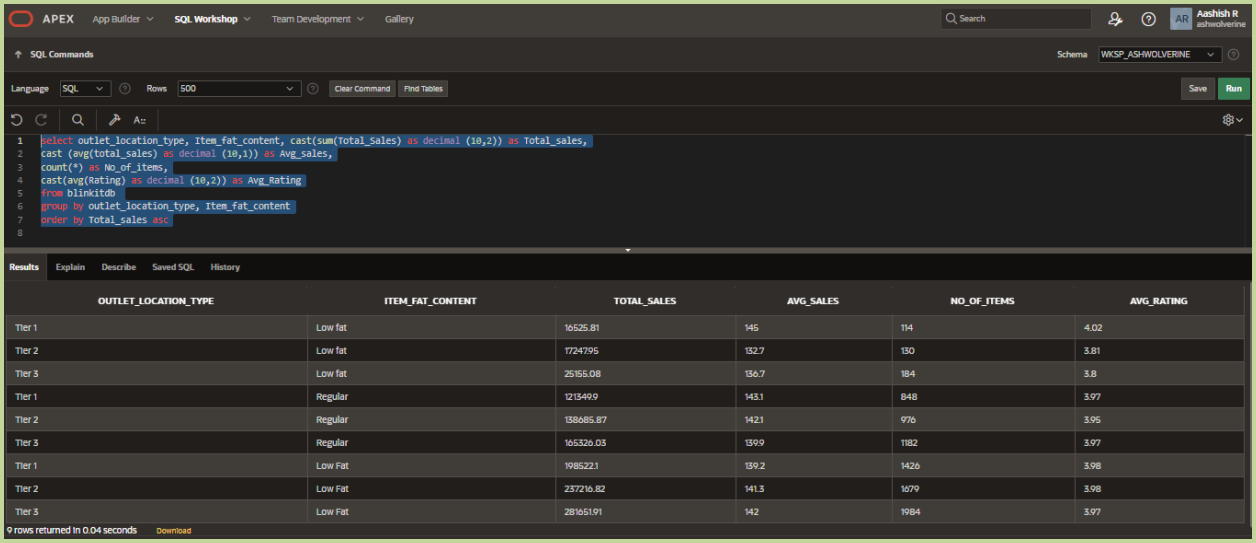
```
select Item_Type, cast(sum(Total_Sales) as decimal (10,2)) as Total_sales,
cast (avg(total_sales) as decimal (10,1)) as Avg_sales,
count(*) as No_of_items,
cast(avg(Rating) as decimal (10,2)) as Avg_Rating
from blinkitdb
group by Item_Type
order by Total_sales asc
FETCH FIRST 5 ROWS ONLY
```

ITEM_TYPE	TOTAL_SALES	AVG_SALES	NO_OF_ITEMS	AVG_RATING
Seafood	9077.87	141.8	64	3.96
Breakfast	15596.7	141.8	110	3.93
Starchy Foods	21880.03	147.8	148	3.92
Others	22451.89	132.9	169	3.95
Hard Drinks	29334.68	137.1	214	3.91

5 rows returned in 0.03 seconds Download

Blinkit Data Analysis SQL Project

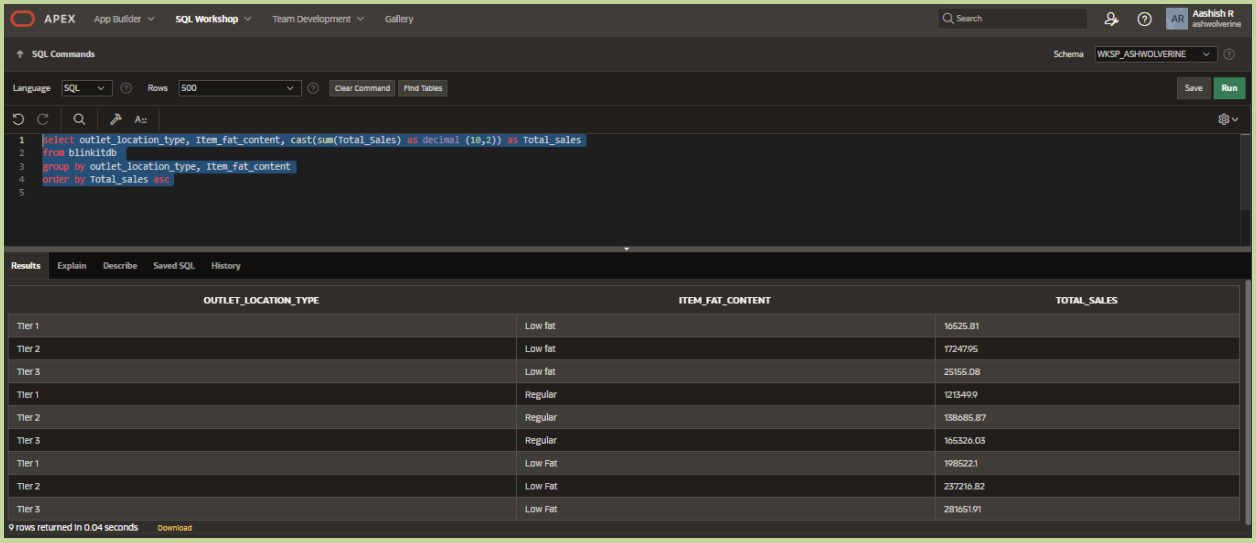
Fat Content by Outlet for total sales:



```
select outlet_location_type, Item_fat_content, cast(sum(Total_Sales) as decimal (10,2)) as Total_sales,
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 blinkitdb
group by outlet_location_type, Item_fat_content
order by Total_sales asc
```

OUTLET_LOCATION_TYPE	ITEM_FAT_CONTENT	TOTAL_SALES	AVG_SALES	NO_OF_ITEMS	AVG_RATING
Tier 1	Low fat	16525.81	145	114	4.02
Tier 2	Low fat	17247.95	132.7	130	3.81
Tier 3	Low fat	25155.08	136.7	184	3.8
Tier 1	Regular	121349.9	143.1	848	3.97
Tier 2	Regular	138685.87	142.1	976	3.95
Tier 3	Regular	165326.03	139.9	1182	3.97
Tier 1	Low Fat	198522.1	139.2	1426	3.98
Tier 2	Low Fat	237216.82	141.3	1679	3.98
Tier 3	Low Fat	281651.91	142	1984	3.97

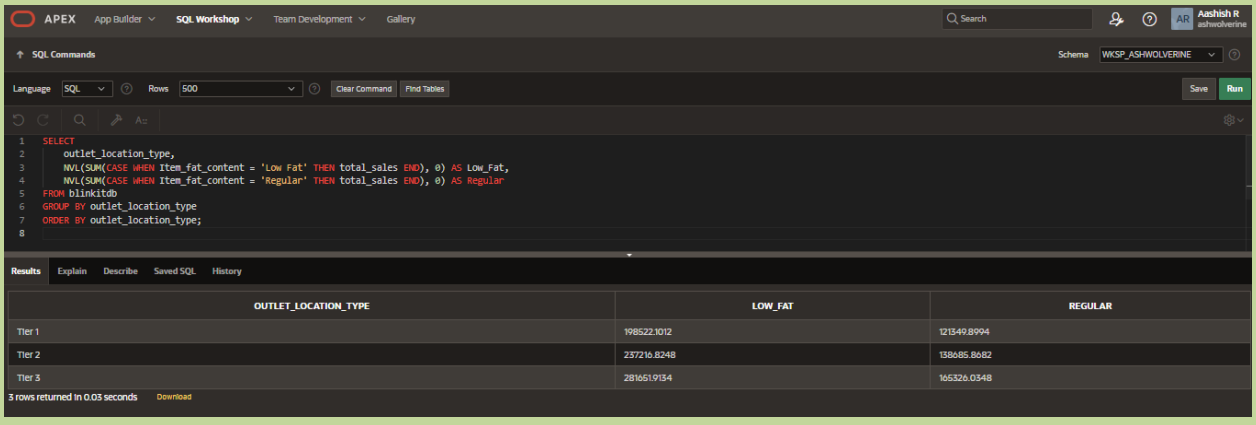
9 rows returned in 0.04 seconds Download



```
select outlet_location_type, Item_fat_content, cast(sum(Total_Sales) as decimal (10,2)) as Total_sales
from blinkitdb
group by outlet_location_type, Item_fat_content
order by Total_sales asc
```

OUTLET_LOCATION_TYPE	ITEM_FAT_CONTENT	TOTAL_SALES
Tier 1	Low fat	16525.81
Tier 2	Low fat	17247.95
Tier 3	Low fat	25155.08
Tier 1	Regular	121349.9
Tier 2	Regular	138685.87
Tier 3	Regular	165326.03
Tier 1	Low Fat	198522.1
Tier 2	Low Fat	237216.82
Tier 3	Low Fat	281651.91

9 rows returned in 0.04 seconds Download



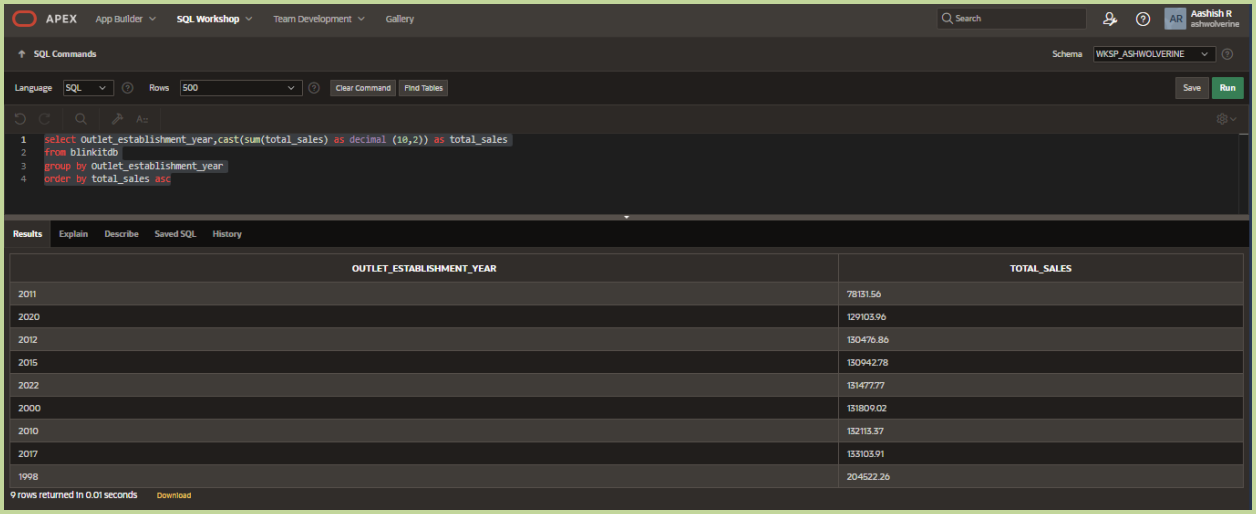
```
SELECT
    outlet_location_type,
    NVL(SUM(CASE WHEN Item_fat_content = 'Low Fat' THEN total_sales END), 0) AS Low_Fat,
    NVL(SUM(CASE WHEN Item_fat_content = 'Regular' THEN total_sales END), 0) AS Regular
FROM blinkitdb
GROUP BY outlet_location_type
ORDER BY outlet_location_type;
```

OUTLET_LOCATION_TYPE	LOW_FAT	REGULAR
Tier 1	198522.1012	121349.8994
Tier 2	237216.8248	138685.8682
Tier 3	281651.9134	165326.0348

3 rows returned in 0.03 seconds Download

Blinkit Data Analysis SQL Project

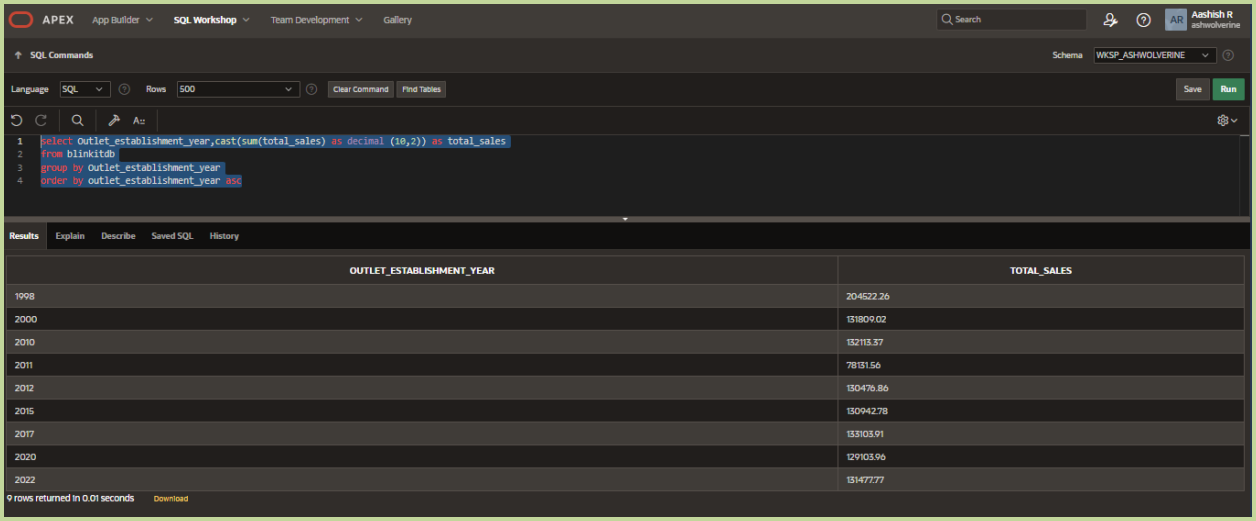
Total Sales by Outlet Establishment:



```
select Outlet_establishment_year,cast(sum(total_sales) as decimal (10,2)) as total_sales
from blinkitdb
group by Outlet_establishment_year
order by total_sales asc
```

OUTLET_ESTABLISHMENT_YEAR	TOTAL_SALES
2011	78131.56
2020	129103.96
2012	130476.86
2015	130942.78
2022	131477.77
2000	131809.02
2010	132113.37
2017	133103.91
1998	204522.26

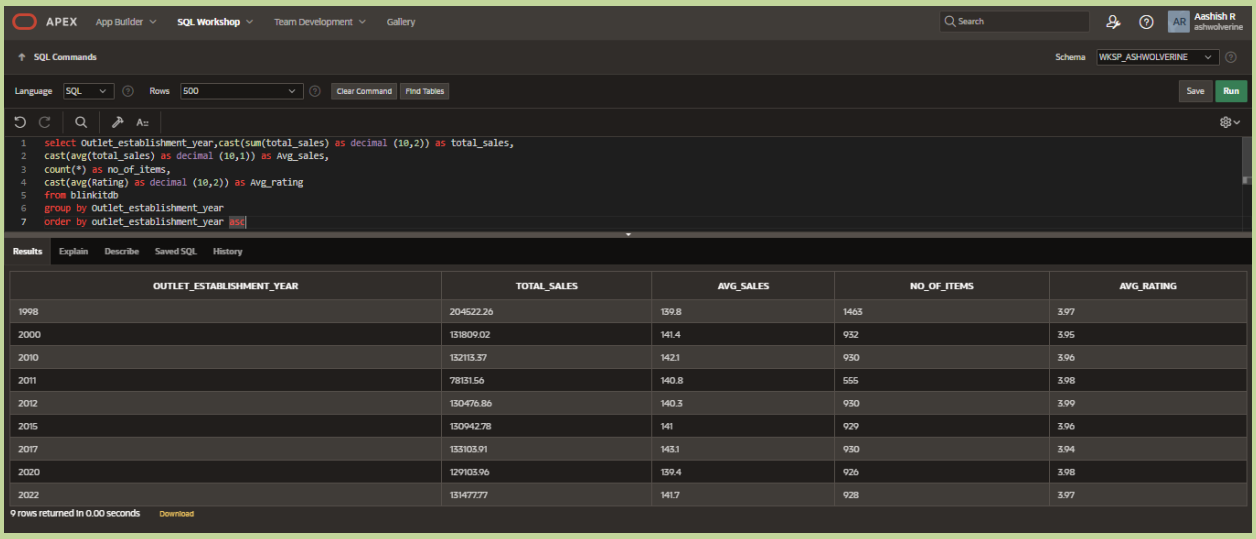
9 rows returned in 0.01 seconds Download



```
select Outlet_establishment_year,cast(sum(total_sales) as decimal (10,2)) as total_sales
from blinkitdb
group by Outlet_establishment_year
order by Outlet_establishment_year asc
```

OUTLET_ESTABLISHMENT_YEAR	TOTAL_SALES
1998	204522.26
2000	131809.02
2010	132113.37
2011	78131.56
2012	130476.86
2015	130942.78
2017	133103.91
2020	129103.96
2022	131477.77

9 rows returned in 0.01 seconds Download

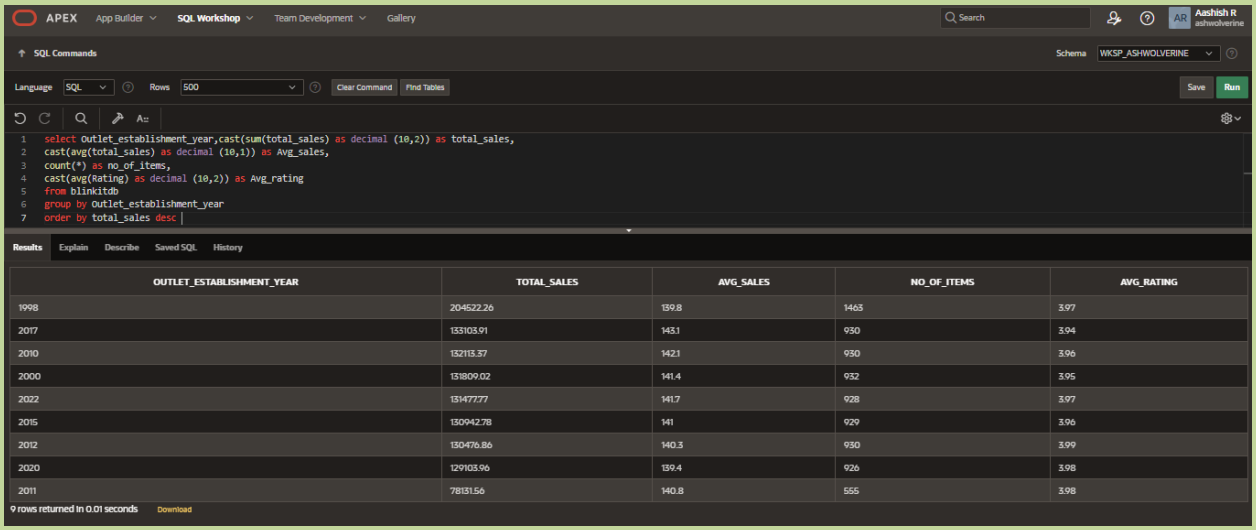


```
select Outlet_establishment_year,cast(sum(total_sales) as decimal (10,2)) as total_sales,
cast(avg(total_sales) as decimal (10,1)) as Avg_sales,
count(*) as no_of_items,
cast(avg(Rating) as decimal (10,2)) as Avg_rating
from blinkitdb
group by Outlet_establishment_year
order by Outlet_establishment_year asc
```

OUTLET_ESTABLISHMENT_YEAR	TOTAL_SALES	AVG_SALES	NO_OF_ITEMS	AVG_RATING
1998	204522.26	139.8	1463	3.97
2000	131809.02	141.4	932	3.95
2010	132113.37	142.1	930	3.96
2011	78131.56	140.8	555	3.98
2012	130476.86	140.3	930	3.99
2015	130942.78	141	929	3.96
2017	133103.91	143.1	930	3.94
2020	129103.96	139.4	926	3.98
2022	131477.77	141.7	928	3.97

9 rows returned in 0.00 seconds Download

Blinkit Data Analysis SQL Project



```
select Outlet_establishment_year,cast(sum(total_sales) as decimal (10,2)) as total_sales,
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 blinkitdb
group by Outlet_establishment_year
order by total_sales desc
```

OUTLET_ESTABLISHMENT_YEAR	TOTAL_SALES	AVG_SALES	NO_OF_ITEMS	AVG_RATING
1998	204522.26	139.8	1463	3.97
2017	133103.91	143.1	930	3.94
2010	132113.37	142.1	930	3.96
2000	131809.02	141.4	932	3.95
2022	131477.77	141.7	928	3.97
2015	130942.78	141	929	3.96
2012	130476.86	140.3	930	3.99
2020	129103.96	139.4	926	3.98
2011	78131.56	140.8	555	3.98

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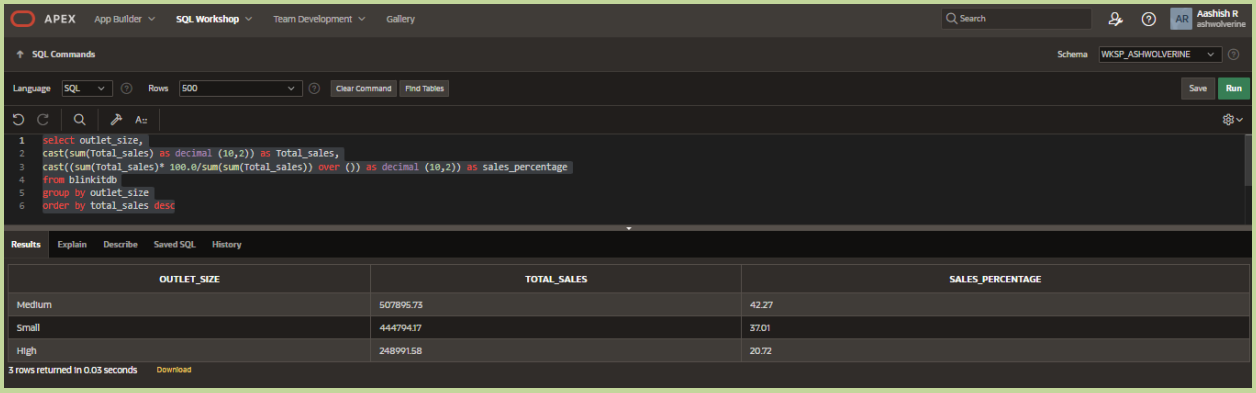
Chart's requirement:

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 blinkitdb
group by outlet_size
order by total_sales desc
```

OUTLET_SIZE	TOTAL_SALES	SALES_PERCENTAGE
Medium	507895.73	42.27
Small	444794.17	37.01
High	248991.58	20.72

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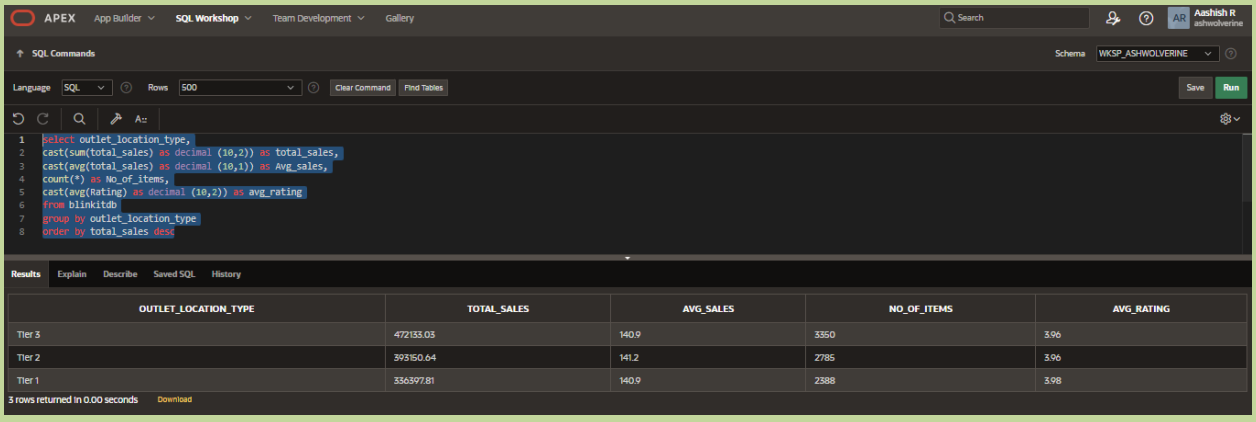
Sales by Outlet Location:



```
select outlet_location_type,
cast(sum(total_sales) as decimal (10,2)) as total_sales,
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 blinkitdb
group by outlet_location_type
order by total_sales desc
```

OUTLET_LOCATION_TYPE	TOTAL_SALES	AVG_SALES	NO_OF_ITEMS	AVG_RATING
Tier 3	472133.03	140.9	3350	3.96
Tier 2	393150.64	141.2	2785	3.96
Tier 1	336397.81	140.9	2388	3.98

3 rows returned in 0.00 seconds Download

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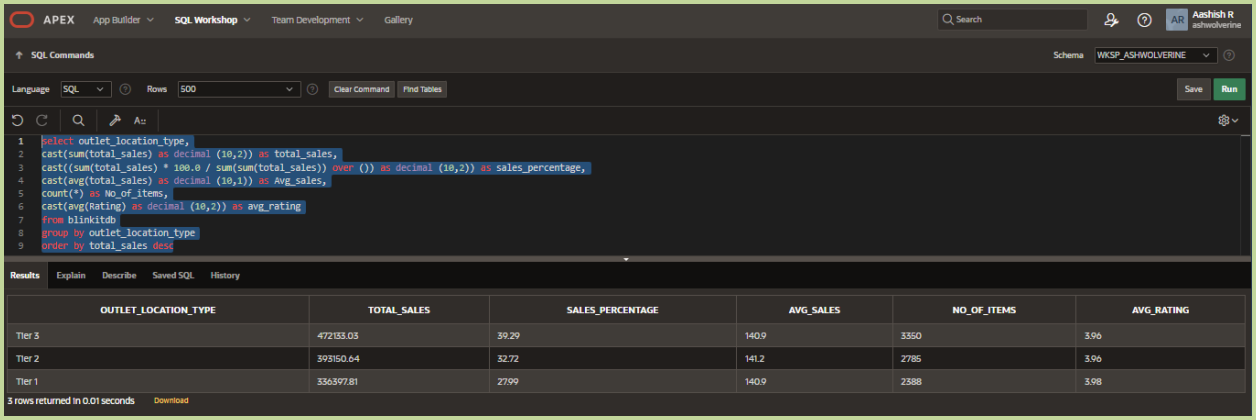
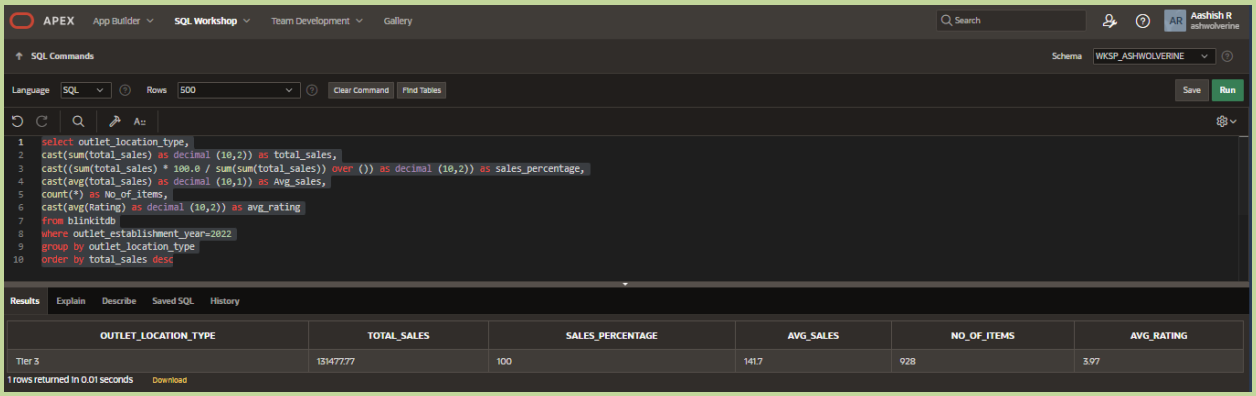


```
select outlet_location_type,
cast(sum(total_sales) as decimal (10,2)) as total_sales,
cast((sum(total_sales) * 100.0 / sum(sum(total_sales)) over ()) as decimal (10,2)) as sales_percentage,
cast(avg(total_sales) as decimal (10,1)) as Avg_sales,
count(*) as No_of_items,
cast(avg(Rating) as decimal (10,2)) as avg_rating
from blinkitdb
group by outlet_location_type
order by total_sales desc
```

OUTLET_LOCATION_TYPE	TOTAL_SALES	SALES_PERCENTAGE	AVG_SALES	NO_OF_ITEMS	AVG_RATING
Tier 3	472133.03	39.29	140.9	3350	3.96
Tier 2	393150.64	32.72	141.2	2785	3.96
Tier 1	336397.81	27.99	140.9	2388	3.98

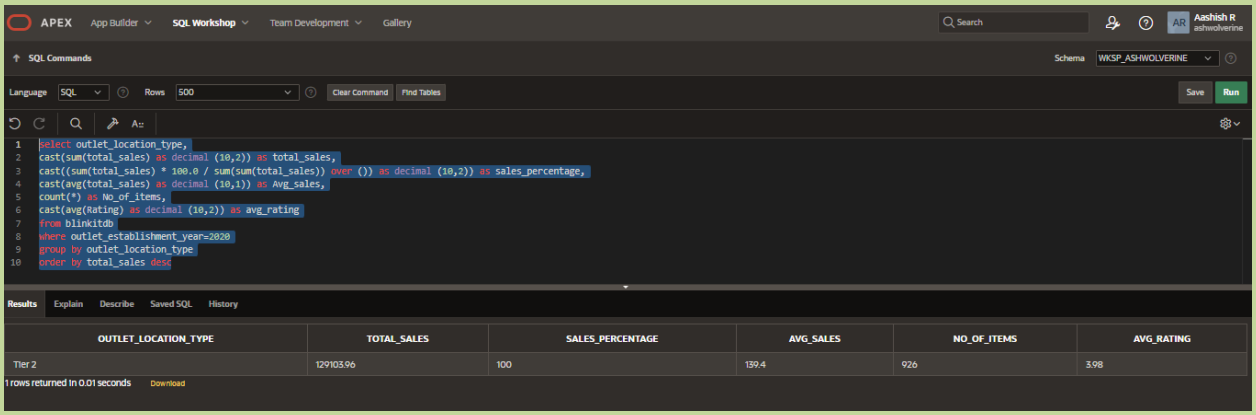
3 rows returned in 0.01 seconds Download



```
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 blinkitdb
where outlet_establishment_year=2022
group by outlet_location_type
order by total_sales desc
```

OUTLET_LOCATION_TYPE	TOTAL_SALES	SALES_PERCENTAGE	AVG_SALES	NO_OF_ITEMS	AVG_RATING
Tier 3	131477.77	100	141.7	928	3.97

1 rows returned in 0.01 seconds Download



```
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 blinkitdb
where outlet_establishment_year=2020
group by outlet_location_type
order by total_sales desc
```

OUTLET_LOCATION_TYPE	TOTAL_SALES	SALES_PERCENTAGE	AVG_SALES	NO_OF_ITEMS	AVG_RATING
Tier 2	129103.96	100	139.4	926	3.98

1 rows returned in 0.01 seconds Download

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All Metrics by Outlet type: