SQL Queries

Core Questions Starts Here

#Extract total sales per branch

select branch, round(sum(total),2) as Total_Sale

from supermarket_sales_data

group by branch

order by branch;

#Extract total sales per product line

select `Product line`, round(sum(total),2) as Total_Sale

from supermarket_sales_data

group by `Product line`

order by `Product line`;

#Extract total sales per branch and product line

select branch, `Product line`, round(sum(total),2) as Total_Sale

from supermarket_sales_data

group by branch,`Product line`

order by branch, `Product line`;

Customer Demographics Starts Here

#Total Sales by Gender and City

select gender, city, round(sum(total),2) as Total_Sale

from supermarket_sales_data

group by gender,city

order by city,gender;

#Total Sales by Gender and Branch

select gender, branch, round(sum(total),2) as Total_Sale

from supermarket_sales_data

```
group by gender,branch

order by branch,gender;


#Average Rating by Gender and Customer Type

select gender, `Customer type`,round(avg(rating),2) as Average_Rating

from supermarket_sales_data

group by gender,`Customer type`

order by gender;


#Total Sales by Product Line for Females

select gender, `Product line`, round(sum(total),2) as Total_Sale

from supermarket_sales_data

where Gender = 'female'

group by gender,`Product line`

order by Total_Sale DESC;


#Total Sales by Product Line for Males

select gender, `Product line`, round(sum(total),2) as Total_Sale

from supermarket_sales_data

where Gender = 'male'

group by gender,`Product line`

order by Total_Sale DESC;
```

Customer Demographics Ends Here

```
#Average sales by gender

select gender, round(avg(total),2) as Average_Sale

from supermarket_sales_data

group by gender

order by Average_Sale;
```

#Identify the top-performing branch in terms of total sales

with top_branch as

(select branch, round(sum(total),2) as Total_Sale

from supermarket_sales_data

group by branch

order by branch DESC)

select branch from top_branch

where Total_Sale = (select max(Total_Sale) from top_branch);

Core Questions Ends Here

Additional Questions Starts Here

#Average Rating and Total Sale by Product Line

select `Product line`, round(sum(total),2) as Total_Sale, round(AVG(rating),2) as Average_Rating

from supermarket_sales_data

group by `Product line`

order by Average_Rating DESC;

#Average Rating and gender by Product Line

select gender, `Product line`, round(avg(rating),2) as Average_Rating

from supermarket_sales_data

group by gender, `Product line`

order by gender;

#Average Rating by Customer Type

select `Customer type`,round(avg(rating),2) as Average_Rating

from supermarket_sales_data

group by `Customer type`;

#Total and Average Sales, Total and Average Units sold by City

select city, round(sum(total),2) as Total_Sale,round(sum(quantity),2) as Total_Units_Sold,

round(avg(total),2) as Average_Sale,round(avg(quantity),2) as Average_Units_Sold

from supermarket_sales_data

group by city

order by Total_Sale desc;

#Total and Average Sales, Total and Average Units sold by Branch

select branch, round(sum(total),2) as Total_Sale,round(sum(quantity),2) as Total_Units_Sold,

round(avg(total),2) as Average_Sale,round(avg(quantity),2) as Average_Units_Sold

from supermarket_sales_data

group by branch

order by Total_Sale desc;

Top Performers Starts Here

#Identify the top-performing City in terms of total sales

with top_city as

(select city, rank() over(order by sum(total) desc) as ranking,round(sum(total),2) as Total_Sale

from supermarket_sales_data

group by city

order by Total_Sale DESC)

select city from top_city

where ranking = 1;

#Identify the top-performing Product Line in terms of total sales

with top_product as

(select `Product line`, rank() over(order by sum(total) desc) as ranking,round(sum(total),2) as Total_Sale

from supermarket_sales_data

group by `Product line`

order by Total_Sale DESC)

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select `Product line`,Total_Sale from top_product

where ranking = 1;


#Best rated Product Line

with top_rank_product as

(select `Product line`, rank() over(order by avg(rating) desc) as ranking,round(avg(rating),2) as
Average_Rating

from supermarket_sales_data

group by `Product line`)

select `Product line`,Average_Rating from top_rank_product

where ranking = 1;


#Best rated City

with top_rank_city as

(select city, rank() over(order by avg(rating) desc) as ranking,round(avg(rating),2) as
Average_Rating

from supermarket_sales_data

group by city)

select city,Average_Rating from top_rank_city

where ranking = 1;


#Best rated Branch

with top_rank_branch as

(select branch, rank() over(order by avg(rating) desc) as ranking,round(avg(rating),2) as
Average_Rating

from supermarket_sales_data

group by branch)

select branch,Average_Rating from top_rank_branch

where ranking = 1;
```

Worst Performers Starts Here

#Identify the worse performing City in terms of total sales

with worse_performing__city as

(select city, rank() over(order by sum(total) asc) as ranking,round(sum(total),2) as Total_Sale

from supermarket_sales_data

group by city limit 1)

select city from worse_performing__city;

#Identify the worse performing Product Line in terms of total sales

with worse_performing__product as

(select `Product line`, rank() over(order by sum(total) asc) as ranking,round(sum(total),2) as Total_Sale

from supermarket_sales_data

group by `Product line` limit 1)

select `Product line`,Total_Sale from worse_performing__product;

#Worst rated Product Line

with worse_ranking_product as

(select `Product line`, rank() over(order by avg(rating) asc) as ranking,round(avg(rating),2) as Average_Rating

from supermarket_sales_data

group by `Product line` limit 1)

select `Product line`,Average_Rating from worse_ranking_product;

#Worst rated City

with worse_ranking_city as

(select city, rank() over(order by avg(rating) asc) as ranking,round(avg(rating),2) as Average_Rating

from supermarket_sales_data

group by city limit 1)

select city,Average_Rating from worse_ranking_city;

#Worst rated Branch

with worse_ranking__branch as

(select branch, rank() over(order by avg(rating) asc) as ranking,round(avg(rating),2) as Average_Rating

from supermarket_sales_data

group by branch limit 1)

select branch,Average_Rating from worse_ranking__branch;