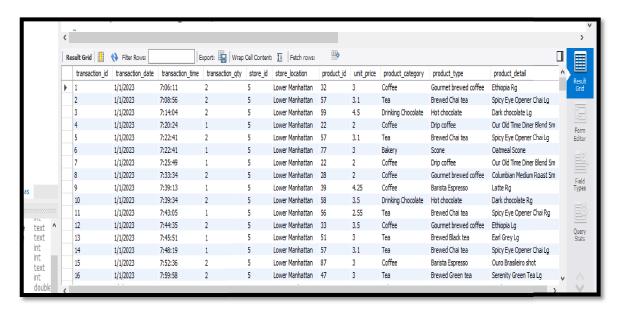
COFFEE SHOP SALES PROJECT

SQL QUERIES

DATA CLEANING

1Table

select * from coffee shop data;



2. 'Transaction_date' data type change from text to Date

UPDATE coffee_table

SET transaction_date = STR_TO_DATE(transaction_date, '%m/%d/%Y');

alter table coffee_table

modify transaction_date date;

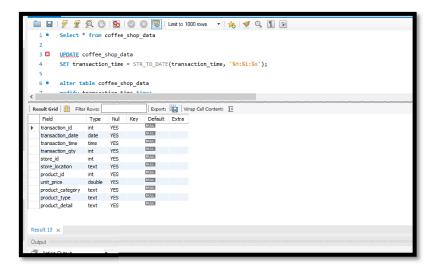
3.'Transaction_time' data type change from text to Time

UPDATE coffee_shop_data

SET transaction_time = STR_TO_DATE(transaction_time, '%H: %i: %s');

alter table coffee_shop_data

modify transaction_time time;



***Query Firing

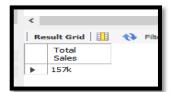
1. Total Sales by Month

select concat(round(sum(unit_price*transaction_qty)/1000,0),'k') AS 'Total Sales'

from coffee_shop_data

where

month(transaction_date) = 5;



2. Month on month Sales percentage increase

select month(transaction_date) as 'Month',

concat(round(sum(unit_price*transaction_qty)/1000,0),'k') AS 'Total Sales',

(concat(round(sum(unit_price*transaction_qty)/1000,0),'k')-lag(concat(round(sum(unit_price*transaction_qty)/1000,0),'k'),1)

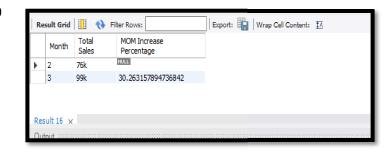
over(order by month(transaction_date)))/
(lag(concat(round(sum(unit_price*transaction_qty)/1000,0),'k'),1)

over(order by month(transaction_date)))*100 as 'MOM Increase Percentage'

from coffee_shop_data

where

month(transaction_date) in (2,3)



```
group by Month(transaction_date)
order by month(transaction_date);
```

3.Total Orders by month

```
select count(transaction_id) AS 'Total Orders'
from coffee_shop_data
where
month(transaction_date) = 3;
```



4. Month on month orders percentage increase

```
select month(transaction_date) as 'Month',

count(transaction_id) AS 'Total Orders',

(count(transaction_id)-lag(count(transaction_id),1)

over( order by month(transaction_date)))/ (lag(count(transaction_id),1)

over( order by month(transaction_date)))*100 as 'MOM Increase Percentage'

from coffee_shop_data

month(transaction_date) in (2,3)

group by Month(transaction_date)

order by month(transaction_date);
```

5. Total Quantity sold by Month

select sum(transaction_qty) AS 'Total Quantity Sold' from coffee_shop_data where

month(transaction_date) = 2;



6. Month on month Quantity sold percentage increase

select month(transaction_date) as 'Month',
sum(transaction_qty) AS 'Total Quantity Sold',

(sum(transaction_qty)-lag(sum(transaction_qty),1)
over(order by month(transaction_date)))/ (lag(sum(transaction_qty),1)
over(order by month(transaction_date)))*100 as 'MOM Increase Percentage'

from coffee_shop_data

where

month(transaction_date) in (2,3)

group by Month(transaction_date)

order by month(transaction_date);



7. Total Sales, Total Orders, Total Quantity Sold by Date for the selected Month

select

concat(round(sum(unit_price * transaction_qty)/1000,1),'k') as 'Total Sales',

count(transaction_id) as 'Total Orders',

sum(transaction_qty) as 'Total Quantity sold'

from coffee_shop_data

where $month(transaction_date) = 5$

and date(transaction_date) = '2023-05-01';



8. Sales on weekends and weekdays for selected month

Select

case when dayofweek(transaction_date) in (1,7) then 'weekends'

else 'weekdays'

end as 'Weekdays/Weekends',

Concat(round(sum(unit_price * transaction_qty)/1000,0),'k') as 'Total Sales'

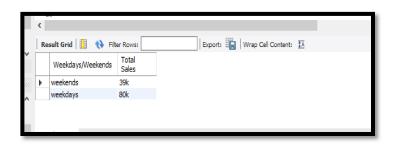
from coffee_shop_data

where $month(transaction_date) = 4$

group by case when dayofweek(transaction_date) in (1,7) then 'weekends'

else 'weekdays'

end ;



9. Sales,Orders,Quantity sold for the selected Hour of the selected Day (week) of the selected Month select

round(sum(unit_price * transaction_qty),1) as 'Total Sales',

count(transaction_id) as 'Total Orders',

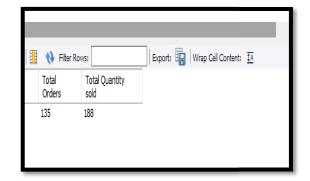
sum(transaction qty) as 'Total Quantity sold'

from coffee_shop_data

where month(transaction date) = 1

and dayofweek(transaction_date)=5

and hour(transaction_time) =14;



10. Total Sales by Hour for selected Month

select

hour(transaction_time),

round(sum(unit_price * transaction_qty),0) as 'Total Sales'

from coffee_shop_data

Where month(transaction_date)=4

group by hour(transaction_time);

11. Sales by Days of Week for the selected Month

select

case

when dayofweek(transaction_date)= 2 then 'Monday'

when dayofweek(transaction_date)= 3 then 'Tuesday'

when dayofweek(transaction_date)= 4 then 'Wednesday'

when dayofweek(transaction_date)= 5 then 'Thursday'

when dayofweek(transaction_date)= 6 then 'Friday'

when dayofweek(transaction_date)= 7 then 'Saturday'

else 'Sunday'

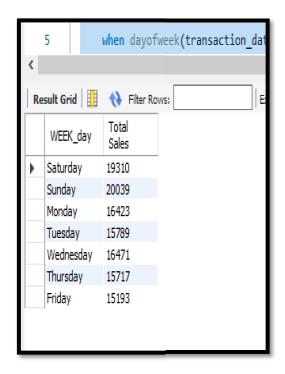
end as WEEK_day,

round(sum(unit_price * transaction_qty),0) as 'Total Sales'
from coffee_shop_data

Where month(transaction_date)=4

group by

case when dayofweek(transaction_date)= 2 then 'Monday' when dayofweek(transaction_date)= 3 then 'Tuesday' when dayofweek(transaction_date)= 4 then 'Wednesday' when dayofweek(transaction_date)= 5 then 'Thursday' when dayofweek(transaction_date)= 6 then 'Friday' when dayofweek(transaction_date)= 7 then 'Saturday' else 'Sunday'



end;

12. Sales by Store Locations for selected Month

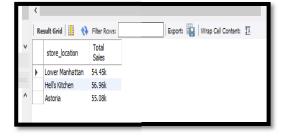
select store_location,

concat(Round(sum(unit_price * transaction_qty)/1000,2),'k') as 'Total Sales'

from coffee_shop_data

where Month(transaction_date)=6

group by store_location;



13. Sales By Product category for the selected Month

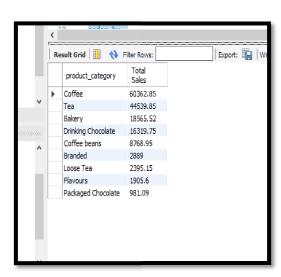
select product_category,

Round(sum(unit_price * transaction_qty),2) as 'Total Sales'

from coffee_shop_data

where Month(transaction_date)=5

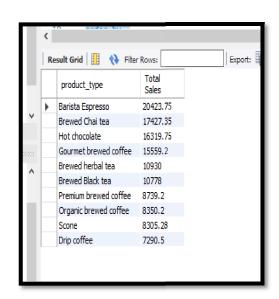
group by product_category



```
order by
Round(sum(unit_price * transaction_qty),2)
desc;
```

14. Sales By Top 10 Product Type for the selected Month

```
select product_type,
Round(sum(unit_price * transaction_qty),2) as 'Total Sales'
from coffee_shop_data
where Month(transaction_date)=5
group by product_type
order by
Round(sum(unit_price * transaction_qty),2)
desc
limit 10;
```



15. Total sales per day for the selected Month and identify which are below average or above average.

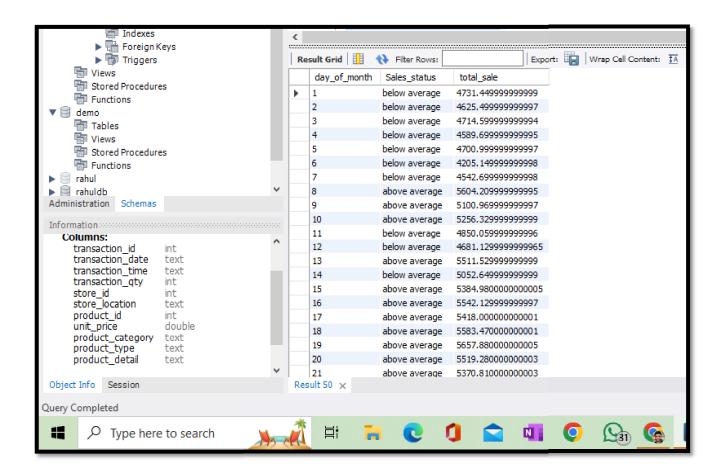
```
select day_of_month,
```

case

```
when total_sale>avg_sale then 'above average'
 when total_sale<avg_sale then 'below average'
 else 'equal to average'
 end as 'Sales_status',
total_sale
from
( select day(transaction_date) as day_of_month,
        sum(unit_price * transaction_qty) as 'total_sale',
        Avg(sum(unit_price * transaction_qty)) over() as 'avg_sale'
  from coffee_shop_data
 where month(transaction_date) = 5
```

```
group by
day(transaction_date)
) as Sales_data
```

order by day_of_month;



Thank You