COFFEE SHOP SALES ANALYSIS

Q) VIEW DATASET

select * from Coffee_Shop_Sales

⊞ Re	esults		Messages
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	transaction_id	transaction_date	transaction_time	transaction_qty	store_id	store_location	product_id	unit_price	product_category	product_type	product_detail
1	1	2023-01-01 00:00:00.0000000	07:06:11.0000000	2	5	Lower Manhattan	32	3	Coffee	Gourmet brewed coffee	Ethiopia Rg
2	2	2023-01-01 00:00:00.0000000	07:08:56.0000000	2	5	Lower Manhattan	57	3.1	Tea	Brewed Chai tea	Spicy Eye Opener Chai Lg
3	3	2023-01-01 00:00:00.0000000	07:14:04.0000000	2	5	Lower Manhattan	59	4.5	Drinking Chocolate	Hot chocolate	Dark chocolate Lg
4	4	2023-01-01 00:00:00.0000000	07:20:24.0000000	1	5	Lower Manhattan	22	2	Coffee	Drip coffee	Our Old Time Diner Blend Sm
5	5	2023-01-01 00:00:00.00000000	07:22:41.0000000	2	5	Lower Manhattan	57	3.1	Tea	Brewed Chai tea	Spicy Eye Opener Chai Lg
6	6	2023-01-01 00:00:00.00000000	07:22:41.0000000	1	5	Lower Manhattan	77	3	Bakery	Scone	Oatmeal Scone
7	7	2023-01-01 00:00:00.00000000	07:25:49.0000000	1	5	Lower Manhattan	22	2	Coffee	Drip coffee	Our Old Time Diner Blend Sm
8	8	2023-01-01 00:00:00.00000000	07:33:34.0000000	2	5	Lower Manhattan	28	2	Coffee	Gourmet brewed coffee	Columbian Medium Roast Sm
9	9	2023-01-01 00:00:00.00000000	07:39:13.0000000	1	5	Lower Manhattan	39	4.25	Coffee	Barista Espresso	Latte Rg
10	10	2023-01-01 00:00:00.00000000	07:39:34.0000000	2	5	Lower Manhattan	58	3.5	Drinking Chocolate	Hot chocolate	Dark chocolate Rg
11	11	2023-01-01 00:00:00.00000000	07:43:05.0000000	1	5	Lower Manhattan	56	2.55	Tea	Brewed Chai tea	Spicy Eye Opener Chai Rg
12	12	2023-01-01 00:00:00.00000000	07:44:35.0000000	2	5	Lower Manhattan	33	3.5	Coffee	Gourmet brewed coffee	Ethiopia Lg
13	13	2023-01-01 00:00:00.00000000	07:45:51.0000000	1	5	Lower Manhattan	51	3	Tea	Brewed Black tea	Earl Grey Lg
14	14	2023-01-01 00:00:00.00000000	07:48:19.0000000	1	5	Lower Manhattan	57	3.1	Tea	Brewed Chai tea	Spicy Eye Opener Chai Lg
15	15	2023-01-01 00:00:00.00000000	07:52:36.0000000	2	5	Lower Manhattan	87	3	Coffee	Barista Espresso	Ouro Brasileiro shot
16	16	2023-01-01 00:00:00.00000000	07:59:58.0000000	2	5	Lower Manhattan	47	3	Tea	Brewed Green tea	Serenity Green Tea Lg
	47	2022 04 04 00 00 00 0000000	07.50.50.0000000		-		70	275	n i	^	

Q) Total Sales For Month May

```
SELECT
    ROUND(SUM(transaction_qty * unit_price),1) as total_Sales
FROM
    Coffee_Shop_Sales
WHERE
    month(transaction_date) = 5 -- MAY Month
```

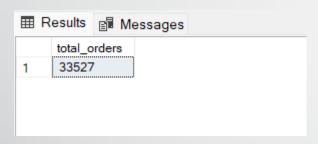
■R	esults	e N	lessages
	total_9	Sales	
1	15672	7.8	

Q) TOTAL SALES KPI - MOM DIFFERENCE AND MOM GROWTH

```
JSELECT
    MONTH(transaction_date) as Month ,
    ROUND(SUM(transaction_qty*unit_price),1) as Total_Sales,
    ROUND((SUM(transaction_qty*unit_price) -
    LAG(SUM(transaction_qty*unit_price),1) OVER(ORDER BY MONTH(transaction_date)))
    /
    LAG(SUM(transaction_qty*unit_price),1) OVER(ORDER BY MONTH(transaction_date)) *100,1) AS Mom_increase_percentage
FROM Coffee_Shop_Sales
WHERE
    MONTH(transaction_date) IN (4, 5) -- for months of April and May
GROUP BY MONTH(transaction_date)
ORDER BY MONTH(transaction_date)
```

⊞R	esults	₽ Messages	
	Month		Mom_increase_percentage
1	4	118941.1	NULL
2	5	156727.8	31.8

Q) TOTAL ORDERS FOR MONTH MAY



Q) TOTAL ORDERS KPI - MOM DIFFERENCE AND MOM GROWTH

```
SELECT

MONTH(transaction_date) AS month,

COUNT(transaction_id) as total_orders,

1.0 * (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_Sales

WHERE

MONTH(transaction_date) IN (4,5)

GROUP BY MONTH(transaction_date)

ORDER BY MONTH(transaction_date)
```

⊞ R	esults [Messages	
	month	total_orders	mom_increase_percentage
1	4	25335	NULL
2	5	33527	32.334714821300
2	5	33527	32.334714821300

Q) TOTAL QUANTITY SOLD IN MONTH MAY

```
SELECT
SUM(transaction_qty) AS Total_quantity_Sold
FROM
Coffee_Shop_Sales
WHERE
MONTH(transaction_date) = 5 -- MAY MONTH
```



Q) TOTAL QUANTITY SOLD KPI - MOM DIFFERENCE AND MOM GROWTH

month Total_quantity_sold mom_percentage_increase
1 4 36469 NULL
2 5 48233 32.257533795800

Q) CALENDAR TABLE - DAILY SALES, QUANTITY and TOTAL ORDERS

⊞ Re	esults	₽ M	essages	
	Daily_	sales	Quantity	Orders
1	5583.4	47	1659	1192

Q) SALES TREND OVER PERIOD

```
SELECT

AVG(total_Sales) AS average_Sales

FROM

(SELECT

SUM(transaction_qty * unit_price) AS total_Sales

FROM

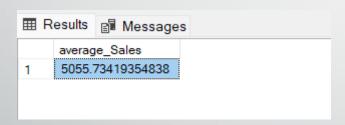
coffee_shop_sales

WHERE

MONTH(transaction_date) = 5

GROUP BY

transaction_date ) AS internal_query
```



Q) Daily Sales for MAY Month selected

```
SELECT
    DAY(transaction_date) AS Day_of_month ,
    SUM(unit_price*transaction_qty) AS total_Sales
FROM
    coffee_shop_sales
WHERE
    MONTH(transaction_date) = 5
GROUP BY
    DAY(transaction_date)
ORDER BY
    DAY(transaction_date)
```

⊞ F	Results 🗐 Mes	sages	
	Day_of_month	total_Sales	
1	1	4731.45	
2	2	4625.5	
3	3	4714.5999999999	
4	4	4589.7	
5	5	4701	
6	6	4205.15	
7	7	4542.7	
8	8	5604.20999999999	
9	9	5100.97	
10	10	5256.33	
11	11	4850.06	
12	12	4681.13	
13	13	5511.53	
14	14	5052.65	
15	15	5384.98	
16	16	5542.13	
17	17	E/110	

Q) COMPARING DAILY SALES WITH AVERAGE SALES - IF GREATER THAN "ABOVE AVERAGE" and LESSER THAN "BELOW AVERAGE"

```
JSELECT
    DAY(transaction_date) AS Day_of_month,
    AVG(SUM(transaction_qty * unit_price)) OVER() AS Average_Sales,
    SUM(transaction_qty * unit_price) AS Daily_sales,

CASE
    WHEN SUM(transaction_qty * unit_price) > AVG(SUM(transaction_qty * unit_price)) OVER() THEN 'Above Average'
    When SUM(transaction_qty * unit_price) < AVG(SUM(transaction_qty * unit_price)) OVER() THEN 'Below Average'
    ELSE 'No Change'
    END AS Sales_Status

FROM
    coffee_shop_sales
WHERE
    MONTH(transaction_date) = 5
GROUP BY DAY(transaction_Date)
ORDER BY DAY(transaction_Date)</pre>
```

⊞R	esults 🖺 Mes	sages		
	Day_of_month	Average_Sales	Daily_sales	Sales_Status
1	1	5055.73419354839	4731.45	Below Average
2	2	5055.73419354839	4625.5	Below Average
3	3	5055.73419354839	4714.59999999999	Below Average
4	4	5055.73419354839	4589.7	Below Average
5	5	5055.73419354839	4701	Below Average
6	6	5055.73419354839	4205.15	Below Average
7	7	5055.73419354839	4542.7	Below Average
8	8	5055.73419354839	5604.20999999999	Above Average
9	9	5055.73419354839	5100.97	Above Average
10	10	5055.73419354839	5256.33	Above Average
11	11	5055.73419354839	4850.06	Below Average
12	12	5055.73419354839	4681.13	Below Average
13	13	5055.73419354839	5511.53	Above Average
14	14	5055.73419354839	5052.65	Below Average
15	15	5055.73419354839	5384.98	Above Average
16	16	5055 73419354839	5542 13	Above Average

Q) SALES BY WEEKDAY / WEEKEND

```
CASE

WHEN DATEPART (WEEKDAY, transaction_date) IN (1,7) THEN 'Weekends'

ELSE 'Weekdays'

END AS day_type,

ROUND (SUM(transaction_qty * unit_price),2) AS Total_Sales

FROM

coffee_Shop_Sales

WHERE

MONTH(transaction_date) = 5

GROUP BY

CASE WHEN DATEPART (WEEKDAY, transaction_date) IN (1,7) THEN 'Weekends'

Else 'Weekdays'

END
```

ш .	esults	3 N	Messages
	day_type	9	Total_Sales
1	Weeker	nds	40099.92
2	Weekda	iys	116627.84

Q) SALES BY STORE LOCATION

	store_location	Total_Sales
1	Hell's Kitchen	52598.93
2	Astoria	52428.76
3	Lower Manhattan	51700.07

Q) SALES BY PRODUCT CATEGORY

```
| SELECT product_category,
| ROUND(SUM (unit_price * transaction_qty),1) AS Total_Sales
| FROM | coffee_shop_sales
| WHERE | MONTH(transaction_date) = 5
| GROUP BY | product_category
| ORDER BY | Total_Sales | DESC
```

⊞ R	esults 📳 Messa	ages
	product_category	Total_Sales
1	Coffee	60362.8
2	Tea	44539.8
3	Bakery	18565.5
4	Drinking Chocolat	te 16319.8
5	Coffee beans	8768.9
6	Branded	2889
7	Loose Tea	2395.2
8	Flavours	1905.6
9	Packaged Chocol	ate 981.1

Q) SALES BY PRODUCTS (TOP 10)

1 2	product_type Barista Espresso	Total_Sales 20423.7
	Barista Espresso	20423.7
2		;
	Brewed Chai tea	17427.4
3	Hot chocolate	16319.8
4	Gourmet brewed coffee	15559.2
5	Brewed herbal tea	10930
6	Brewed Black tea	10778
7	Premium brewed coffee	8739.2
8	Organic brewed coffee	8350.2
9	Scone	8305.3
10	Drip coffee	7290.5

Q) SALES BY DAY | HOUR

⊞ Results					
	Total_Sales	Total_Quantity	Total_Orders		
1	2968.9	874	612		

Q) TO GET SALES FROM MONDAY TO SUNDAY FOR MONTH OF MAY

```
SELECT
     CASE
         WHEN Datepart(weekday,transaction_date) = 2 THEN 'Monday'
         WHEN Datepart(weekday,transaction_date) = 3 THEN 'Tuesday'
         WHEN Datepart(weekday,transaction_date) = 4 THEN 'Wednesday'
         WHEN Datepart(weekday,transaction_date) = 5 THEN 'Thursday'
         WHEN Datepart(weekday,transaction_date) = 6 THEN 'Friday'
         WHEN Datepart(weekday,transaction_date) = 7 THEN 'Saturday'
         ELSE 'Sunday'
     END AS Day_of_Week,
     ROUND(SUM(unit_price * transaction_qty),2) AS Total_Sales
 FROM
     coffee_shop_sales
     MONTH(transaction_date) = 5 -- Filter for May (month number 5)
 GROUP BY
     CASE
         WHEN Datepart(weekday,transaction_date) = 2 THEN 'Monday'
         WHEN Datepart(weekday,transaction_date) = 3 THEN 'Tuesday'
         WHEN Datepart(weekday,transaction_date) = 4 THEN 'Wednesday'
         WHEN Datepart(weekday,transaction_date) = 5 THEN 'Thursday'
         WHEN Datepart(weekday,transaction_date) = 6 THEN 'Friday'
        WHEN Datepart(weekday,transaction_date) = 7 THEN 'Saturday'
         ELSE 'Sunday'
     END;
```

⊞ R	esults 📳 Mes	ssages
	Day_of_Week	Total_Sales
1	Tuesday	25346.99
2	Thursday	20254.08
3	Sunday	19304.81
4	Wednesday	25464.51
5	Friday	20340.96
6	Monday	25221.3
7	Saturday	20795.11

Q) TO GET SALES FOR ALL HOURS FOR MONTH OF MAY

```
SELECT Datepart(HOUR, transaction_time) AS Hour,
    ROUND(SUM(unit_price* transaction_qty),1) AS Total_Sales
FROM
    coffee_shop_sales
WHERE
    MONTH(transaction_date) = 5
GROUP BY
    Datepart(HOUR, transaction_time)
ORDER BY
    Datepart(HOUR, transaction_time)
```

■ Results		■ Messages	
	Hour	Total_Sales	
1	6	4912.9	
2	7	14350.7	
3	8	18822.3	
4	9	19145.3	
5	10	19639.1	
6	11	10312.2	
7	12	8869.8	
8	13	9379.2	
9	14	9057.7	
10	15	9525.2	
11	16	9154.3	
12	17	8966.9	
13	18	7679.9	
14	19	6256.5	
15	20	655.9	

COFFEE SHOP SALES

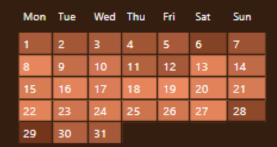
Sales Report

Filter Panel

Month

May 2023

May 2023



Hover on this visual to see details

Sales by Weekday / Weekend



Sales by Store location

Hell's Kitchen | \$52.60K

▲ +30.5% | +12.3K vs LM

Astoria | \$52.43K

▲ +32.8% | +13.1K vs LM

Lower Manhattan | \$51.70K









▲ +31.3%

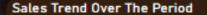
A +31.1%

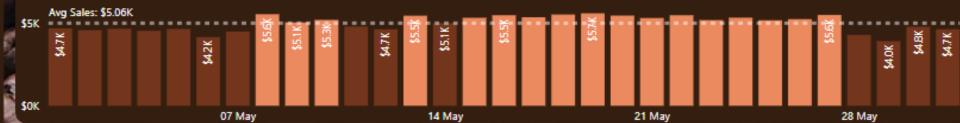
Total Quantity Sold

48233

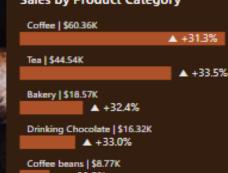
▲ +32.3% | +11.8K vs LM







Sales by Product Category



▲ +28.5%

Branded | \$2.89K ▲ +21.4%

Loose Tea | \$2.40K ▲ +30.9%

Flavours | \$1.91K ▲ +34.3%

Packaged Chocolate | \$0.98K ▲ +12.4%

Sales by Product Category

Barista Espresso | \$20.42K

Brewed Chai tea | \$17.43K

Hot chocolate | \$16.32K

A +33.0%

Gourmet brewed coffee | \$15.56K

A +31.6% Brewed herbal tea | \$10.93K

A +35.8%

Brewed Black tea | \$10.78K ▲ +34.3%

Premium brewed coffee | \$8.74K ▲ +33.1%

Organic brewed coffee | \$8.35K ▲ +26.3%

Scone | \$8.31K

▲ +29.2%

Drip coffee | \$7.29K ▲ +34.6%

