# **MY-SQL QUERIES**

 CONVERTING (transaction\_date) COLUMN TO PROPER DATE FORMAT-USE coffeesales;

```
UPDATE coffee_shop_sales
SET transaction_date= STR_TO_DATE(transaction_date, '%Y-%m-%d');
```

• ALTERING COLUMN TO DATE DATA TYPE-

```
ALTER TABLE coffee_shop_sales

MODIFY COLUMN transaction_date DATE;
```

• CONVERTING (transaction\_time) COLUMN TO PROPER TIME FORMAT-

```
UPDATE coffee_shop_sales
SET transaction_time= TIME(transaction_time);
```

• ALTERING COLUMN TO TIME DATA TYPE-

```
ALTER TABLE coffee_shop_sales
MODIFY COLUMN transaction_time TIME;
```

• TO OBSERVE THE COLUMN-

DESCRIBE coffee\_shop\_sales;

	Field	Type	Null	Key	Default	Extra
۰	i=ctransaction_id	int	YES		1000	
	transaction_date	date	YES		ESSE STATE OF THE PERSON SERVICES	
	transaction_time	time	YES		THE REAL PROPERTY.	
	transaction_qty	int	YES		1000	
	store_id	int	YES		HEALE	
	store_location	text	YES		1000	
	product_id	int	YES		PERSONAL PROPERTY.	
	unit_price	double	YES		0000	
	product_category	text	YES		DESCRIPTION OF THE PERSON OF T	
	product_type	text	YES		HOLE	
	product detail	text	YES		HELL	

• CHANGING COLUMN NAME FROM "i>>?transaction\_id" to transaction\_id

```
ALTER TABLE coffee_shop_sales

CHANGE COLUMN ination_id transaction_id INT;
```

#### • TOTAL SALES-

```
SELECT MONTH(transaction_date), ROUND(SUM(unit_price*transaction_qty)) AS Total_sales
FROM coffee_shop_sales
WHERE MONTH(transaction_date)=5 #--For may month
GROUP BY MONTH(transaction_date);

MONTH(transaction_date) Total_sales

156728
```

#### • TOTAL SALES- MONTH ON MONTH GROWTH-

```
SELECT
   MONTH(transaction_date) AS month,
   ROUND(SUM(unit_price * transaction_qty)) AS total_sales,
   (SUM(unit_price * transaction_qty) - LAG(SUM(unit_price * transaction_qty), 1)
   OVER (ORDER BY MONTH(transaction_date))) / LAG(SUM(unit_price * transaction_qty), 1)
   OVER (ORDER BY MONTH(transaction_date)) * 100 AS mom_increase_percentage
FROM
    coffee_shop_sales
GROUP BY
    MONTH(transaction_date)
ORDER BY
   MONTH(transaction_date);
```

	month	total_sales	mom_increase_percentage
١	1	81678	NULL
	2	76145	-6.773632571126168
	3	98835	29.79766679944006
	4	118941	20.34346648362807
	5	156728	31.769242384551315
	6	166486	6.226159296860083

#### • TOTAL ORDERS-

```
SELECT MONTH(transaction_date), (COUNT(transaction_id)) AS Total_Orders
FROM coffee_shop_sales
WHERE MONTH(transaction_date)=5 #--For may month
GROUP BY MONTH(transaction_date);
```

	MONTH(transaction_date)	Total_Orders
•	5	33527

# • TOTAL ORDERS-- MONTH ON MONTH GROWTH-

```
MONTH(transaction_date) AS month,

ROUND(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_sales

GROUP BY

MONTH(transaction_date)

ORDER BY

MONTH(transaction_date);
```

	month	total_orders	mom_increase_percentage
١	1	17314	NULL
	2	16359	-5.5158
	3	21229	29.7695
	4	25335	19.3415
	5	33527	32.3347
	6	35352	5.4434

## • TOTAL QUANTITY SOLD-

```
SELECT MONTH(transaction_date), (SUM(transaction_qty)) AS total_quantity_sold
FROM coffee_shop_sales
WHERE MONTH(transaction_date)=5 #--For may month
SROUP BY MONTH(transaction_date);
```

	MONTH(transaction_date)	total_quantity_sold
•	5	48233

• TOTAL QUANTITY-- MONTH ON MONTH GROWTH-

```
SELECT
    MONTH(transaction_date) AS month,
    ROUND(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_sales
WHERE
    MONTH(transaction date) IN (4, 5) -- for April and May
GROUP BY
    MONTH(transaction_date)
ORDER BY
    MONTH(transaction_date);
    month
           total_quantity_sold mom_increase_percentage
                              NULL
            36469
```

• FOR CALENDAR TABLE- DAILY SALES, QUANTITY AND TOTAL ORDER-

32,2575

5

5

48233

48233

```
SELECT ROUND(SUM(unit_price * transaction_qty),1) AS Total_sales,
SUM(transaction_qty) AS Total_Qty_Sold,
COUNT(transaction_id) AS Total_Orders
FROM coffee_shop_sales
WHERE
Transaction_date= '2023-05-18';

month total_quantity_sold mom_increase_percentage

4 36469
```

32,2575

#### • SALES ANALYSIS BY WEEKDAYS AND WEEKENDS-

```
SELECT SUM(unit_price * transaction_qty)

AS sales_by_weekend_weekdays

FROM coffee_shop_sales

WHERE MONTH(transaction_date) = 5

GROUP BY DAYOFWEEK(transaction_date) IN (1,7);

sales_by_weekend_weekdays

116627.84000000086
40099.919999999605
```

## • SALES ANALYSIS BY STORE LOCATION-

```
SELECT store_location, SUM(unit_price * transaction_qty) AS total_sales
FROM coffee_shop_sales
WHERE MONTH(transaction_date) = 5 -- MAY
GROUP BY store_location
ORDER BY total_sales DESC;
```

	store_location	total_sales
١	Hell's Kitchen	52598.929999999375
	Astoria	52428.75999999932
	Lower Manhattan	51700.06999999959

## • DAILY SALES ANALYSIS-

```
SELECT DAY(transaction_date) as day_of_month
,SUM(unit_price * transaction_qty) as sales
FROM coffee_shop_sales
WHERE MONTH (transaction_date)=5
GROUP BY DAY(transaction_date)
ORDER BY DAY(transaction_date);
```

	day_of_month	sales
•	1	4731.449999999999
	2	4625,499999999997
	3	4714.599999999994
	4	4589.699999999995
	5	4700.99999999997
	6	4205.149999999998
	7	4542.699999999998
	8	5604.209999999995

day_of_month	sales
10	5256.329999999999
11	4850.059999999996
12	4681.1299999999965
13	5511.529999999999
14	5052.649999999999
15	5384.9800000000005
16	5542.129999999997
17	5418.000000000001

day_of_month	▲ sales
19	5657.880000000005
20	5519.280000000003
21	5370.810000000003
22	5541.16
23	5242.910000000001
24	5391.45
25	5230.8499999999985
26	5300.94999999998

27	5559.1500000000015
28	4338.649999999998
29	3959,499999999998
30	4835.479999999997
31	4684.129999999993

# • SALES WRT PRODUCT CATEGORY-

SELECT product\_category, SUM(unit\_price \* transaction\_qty) AS total\_sales
FROM coffee\_shop\_sales
WHERE MONTH(transaction\_date) = 5 -- MAY
GROUP BY product\_category
ORDER BY total\_sales DESC;

	product_category	total_sales
•	Coffee	60362.84999999928
	Tea	44539.84999999951
	Bakery	18565.519999999997
	Drinking Chocolate	16319.75
	Coffee beans	8768.949999999997
	Branded	2889
	Loose Tea	2395.1500000000005
	Flavours	1905.5999999999476

## • TOP 10 PRODUCTS-

```
SELECT product_type, SUM(unit_price * transaction_qty) AS total_sales
FROM coffee_shop_sales
WHERE MONTH(transaction_date) = 5 AND product_category="Coffee" -- MAY
GROUP BY product_type
ORDER BY total_sales LIMIT 10;
```

	product_type	total_sales
Þ	Drip coffee	7290.5
	Organic brewed coffee	8350.199999999939
	Premium brewed coffee	8739.199999999973
	Gourmet brewed coffee	15559.200000000008
	Barista Espresso	20423.749999999993

# • SALES ANALYSIS BY HOUR AND DAY-

```
select * FROM coffee_shop_sales;

SELECT SUM(unit_price * transaction_qty) AS total_sales
    ,SUM(transaction_qty)
    ,COUNT(transaction_id)

FROM coffee_shop_sales
WHERE MONTH(transaction_date) =5

AND DAYOFWEEK(transaction_date) =2

AND HOUR(transaction_time) =8;
```

	total_sales	SUM(transaction_qty)	COUNT(transaction_id)
•	2697.029999999999	819	572