

COFFEE SALES ANALYSIS

USING MYSQL

TOTAL SALES ANALYSIS

Total sales of all months

SELECT

ROUND(SUM(transaction_qty * unit_price)) AS Total_sales

FROM

coffee_shop_sales;



Total sales for a particular month

SELECT

ROUND(SUM(transaction_qty * unit_price)) AS Total_sales

FROM

coffee_shop_sales

WHERE

MONTH(transaction_date) = 5; -- for May



CONCAT(ROUND(SUM(transaction_qty * unit_price))/1000, "K") AS Total_sales

FROM

coffee_shop_sales

WHERE

MONTH(transaction_date) = 4; -- for April



 To find difference between the Current Month (CM) and the Previous Month (PM)

SELECT

MONTH(transaction_date) AS month,

ROUND(SUM(transaction_qty * unit_price)) AS Total_sales,

(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 AS MOM_increase_percentage

FROM

coffee_shop_sales

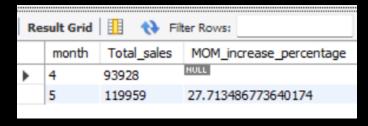
MONTH(transaction_date) IN (4,5)

GROUP BY

MONTH(transaction_date)

ORDER BY

MONTH(transaction_date);



TOTAL ORDER ANALYSIS

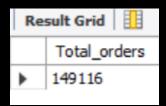
• Total order of all months

SELECT

COUNT(transaction_id) AS Total_orders

FROM

coffee_shop_sales;



Total order for a particular month

SELECT

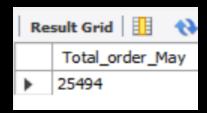
COUNT(transaction_id) AS Total_order_May

FROM

coffee_shop_sales

WHERE

MONTH(transaction_date) = 5; -- for May



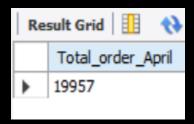
COUNT(transaction_id) AS Total_order_April

FROM

coffee_shop_sales

WHERE

MONTH(transaction_date) = 4; -- for April



 To find difference between the Current Month (CM) and the Previous Month (PM) Sales

SELECT

MONTH(transaction_date) AS month,

COUNT(transaction_id) AS Total_Order,

(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_in_order

FROM

coffee_shop_sales

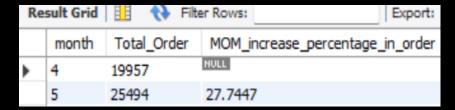
MONTH(transaction_date) IN (4,5)

GROUP BY

MONTH(transaction_date)

ORDER BY

MONTH(transaction_date);



TOTAL QUANTITY SOLD ANALYSIS

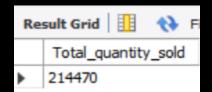
• Total order of all months

SELECT

SUM(transaction_qty) AS Total_quantity_sold

FROM

coffee_shop_sales;



Total quantity sold for a particular month

SELECT

SUM(transaction_qty) AS Total_quantity_May

FROM

coffee_shop_sales

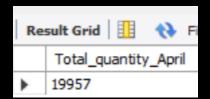
COUNT(transaction_id) AS Total_quantity_April

FROM

coffee_shop_sales

WHERE

MONTH(transaction_date) = 4; -- for April



 To find difference between the Current Month (CM) and the Previous Month (PM) quantity sold

SELECT

MONTH(transaction_date) AS month,

COUNT(transaction_qty) AS Total_quantity,

(COUNT(transaction_qty) - LAG(COUNT(transaction_qty),1)

OVER (ORDER BY MONTH(transaction_date))) / LAG(COUNT(transaction_qty),1)

OVER (ORDER BY MONTH(transaction_date)) *100 AS MOM_increase_percentage_in_qty

FROM

coffee_shop_sales

WHERE

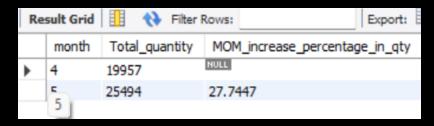
MONTH(transaction_date) IN (4,5)

GROUP BY

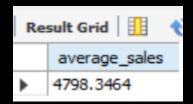
MONTH(transaction_date)

ORDER BY

MONTH(transaction_date);



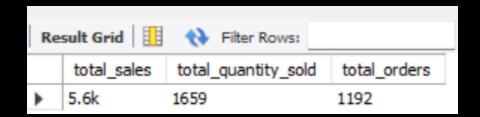
Average Sales for a particular month



Comparing Daily Sales with Average Sales – If Greater than "ABOVE AVERAGE" and LESSER than "BELOW AVERAGE"

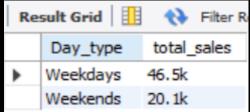
Res	sult Grid 🔢 🐧	Filter Rows:		Export:
	day_of_month	sales_status	total_sales	
	1	Below Average	2418.85000000	000004
	2	Below Average	2304.70000000	000003
•	3	Below Average	2945.30000000	000006
	4	Below Average	3552.7	
	5	Below Average	4700.9999999	99997
	6	Above Average	4911.14999999	99995
	13	Above Average	5511.5299999	99999
	14	Above Average	5052.64999999	99999
	15	Above Average	5384.98000000	000005
	16	Above Average	5542.12999999	99997
	17	Above Average	5418.00000000	00001
	18	Above Average	5583.47000000	00001
	19	Above Average	5657.88000000	00005
	20	Above Average	5519.28000000	00003
	21	Above Average	5370.81000	0000003
	22	Above Average	5541.16	
	23	Above Average	5242.91000	0000001
	24	Above Average	5391.45	
	25	Above Average	5230.84999	99999985
	26	Above Average	5300.94999	9999998
	27	Above Average	5559.15000	00000015
	28	Below Average	4338.64999	
	29	Below Average	3959.49999	
	30	Above Average	4835.47999	
	31	Below Average	4684.12999	9999993

➤ SALES, QUANTITY and TOTAL ORDERS for a particular day Analysis



➤ Total Sales in a particular month in Weekends (Sunday, Saturday)

```
SELECT
  CASE
   WHEN dayofweek(transaction_date) IN (1,7) THEN 'Weekends'
   ELSE 'Weekdays'
   END AS Day_type,
   CONCAT(ROUND(SUM(unit_price * transaction_qty)/1000,1),'k') AS total_sales
FROM
  coffee_shop_sales
WHERE
 MONTH (transaction_date) = 2
GROUP BY
 CASE
   WHEN dayofweek(transaction_date) IN (1,7) THEN 'Weekends'
   ELSE 'Weekdays'
   END;
```



Sales by store_location



Daily Sales for Month selected

day_of_month	total_sales
1	2418.9
2	2304.7
3	2945.3
4	3552.7
5	4701
6	4911.1
13	5511.5
14	5052.6
15	5385
16	5542.1
17	5418
18	5583.5
19	5657.9
20	5519.3
21	5370.8
22	5541.2
23	5242.9
24	5391.4
25	5230.8
26	5300.9
27	5559.2
28	4338.6
29	3959.5
30	4835.5
31	4684.1
	1 2 3 4 5 6 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

➤ Sales by Product Category

Result Grid			
	product_category	Total_Sales	
•	Coffee	46326.5	
	Tea	33988.7	
	Bakery	14080.8	
	Drinking Chocolate	12631	
	Coffee beans	6846.1	
	Branded	2335	
	Loose Tea	1726	
	Flavours	1359.2	
	Packaged Chocolate	665.3	

➤ Sales by Products (TOP 10)

product_type,

ROUND(SUM(unit_price * transaction_qty),1) as Total_Sales

FROM coffee_shop_sales

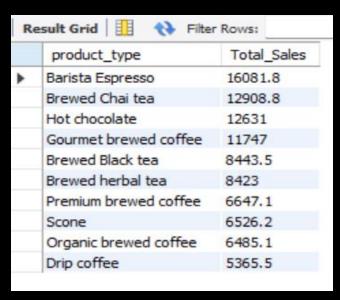
WHERE

MONTH(transaction_date) = 5

GROUP BY product_type

ORDER BY SUM(unit_price * transaction_qty) DESC

LIMIT 10;



> Sales By Day & Hour

SELECT

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

SUM(transaction_qty) AS Total_Quantity,

COUNT(*) AS Total_Orders

FROM

coffee_shop_sales

DAYOFWEEK(transaction_date) = 3 -- Tuesday

AND HOUR(transaction_time) = 8 -- hour number 8

AND MONTH(transaction_date) = 5; -- May

Result Grid			Filter Rows:	
	Total_Sale	s Tota	l_Quantity	Total_Orders
•	2170	636		444

> Sales on all days of week

```
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 Day_of_Week,
 ROUND(SUM(unit_price * transaction_qty)) AS Total_Sales
FROM
 coffee_shop_sales
WHERE
 MONTH(transaction_date) = 5 -- May
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;

R	esult Grid	Filter Rows:
	Day_of_Week	Total_Sales
•	Monday	17304
	Tuesday	17925
	Wednesday	18439
	Thursday	14367
	Friday	15660
	Saturday	21501
	Sunday	14762

> To get Sales for all Hours for Month of May

SELECT

HOUR(transaction_time) AS Hour_of_Day,

ROUND(SUM(unit_price * transaction_qty)) AS Total_Sales

FROM

coffee_shop_sales

WHERE

MONTH(transaction_date) = 5 -- Filter for May (month number 5)

GROUP BY

HOUR(transaction_time)

ORDER BY

HOUR(transaction_time);

Re	sult Grid 📗	N Filter Rows
	Hour_of_Day	Total_Sales
•	6	3701
	7	10649
	8	14513
	9	14928
	10	15014
	11	7679
	12	7021
	13	7131
	14	7036
	15	7303
	16	7084
	17	6918
	18	5699
	19	4786
	20	497