

# Mobile Sales MYSQL Project

```
CREATE DATABASE MobileSalesDB;
```

```
USE MobileSalesDB;
```

```
-- Create Table
```

```
CREATE TABLE MobileSales (
```

```
    Transaction_ID INT PRIMARY KEY AUTO_INCREMENT,
```

```
    Date DATE NOT NULL,
```

```
    Day_Name VARCHAR(10) NOT NULL,
```

```
    Brand VARCHAR(20) NOT NULL,
```

```
    Units_Sold INT,
```

```
    Price_Per_Unit DECIMAL(10,2) ,
```

```
    Customer_Name VARCHAR(50) NOT NULL,
```

```
    Customer_Age INT ,
```

```
    City VARCHAR(30) NOT NULL,
```

```
    Payment_Method VARCHAR(50) NOT NULL,
```

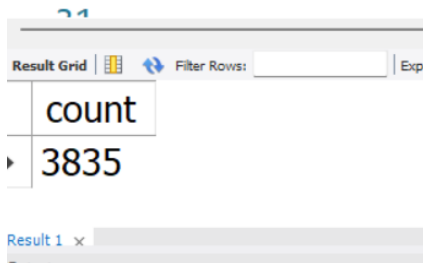
```
    Customer_Ratings INT CHECK (Customer_Ratings BETWEEN 1 AND 5),
```

```
    Mobile_Model VARCHAR(30) NOT NULL,
```

```
    Total_Sales DECIMAL(12,2)
```

```
);
```

**select count(\*) as count from MobileSales;**



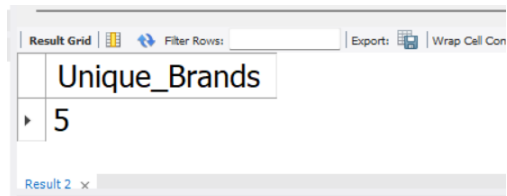
The screenshot shows a SQL query result grid. The header row contains the column name 'count'. The first data row shows the value '3835'. The interface includes a 'Result Grid' tab, a 'Filter Rows' input field, and an 'Export' button. Below the grid, there is a tab labeled 'Result 1'.

count
3835

### Basic Queries :

#### 1. How many unique brands are there in the dataset?

**SELECT COUNT(DISTINCT Brand) AS Unique\_Brands FROM MobileSales;**

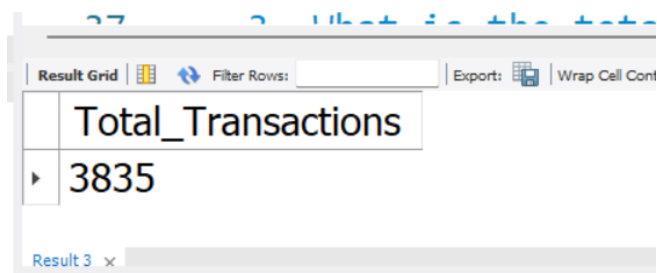


The screenshot shows a SQL query result grid. The header row contains the column name 'Unique\_Brands'. The first data row shows the value '5'. The interface includes a 'Result Grid' tab, a 'Filter Rows' input field, an 'Export' button, and a 'Wrap Cell Content' option. Below the grid, there is a tab labeled 'Result 2'.

Unique_Brands
5

#### 2. What is the total number of transactions?

**SELECT COUNT(Transaction\_ID) AS Total\_Transactions FROM MobileSales;**



The screenshot shows a SQL query result grid. The header row contains the column name 'Total\_Transactions'. The first data row shows the value '3835'. The interface includes a 'Result Grid' tab, a 'Filter Rows' input field, an 'Export' button, and a 'Wrap Cell Content' option. Below the grid, there is a tab labeled 'Result 3'.

Total_Transactions
3835

### 3. What is the total revenue generated from mobile sales?

```
SELECT SUM(Total_Sales) AS Total_Revenue FROM MobileSales;
```

Result Grid		Filter Rows:	Export:	Wrap Cell
	Total_Revenue			
▶	769204987.97			
Result 4				

### -- 4. What are the top 5 most sold mobile brands?

```
SELECT Brand, SUM(Units_Sold) AS Total_Units_Sold
FROM MobileSales
GROUP BY Brand
ORDER BY Total_Units_Sold DESC
LIMIT 5;
```

Result Grid		Filter Rows:	Export:	Wrap Cell Contents	Fetch rows:
	Brand	Total_Units_Sold			
▶	Apple	3932			
	Samsung	3923			
	OnePlus	3830			
	Vivo	3801			
	Xiaomi	3664			

### 5. What is the average customer age?

```
SELECT AVG(Customer_Age) AS Average_Customer_Age FROM MobileSales;
```

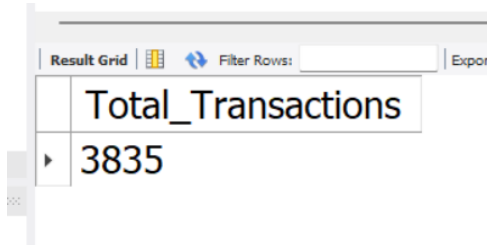
Result Grid		Filter Rows:	Export:	Wrap Cell C
	Average_Customer_			
▶	38.0983			

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## -- POWER BI KPI :

### -- 1. Total Transactions

```
SELECT COUNT(Transaction_ID) AS Total_Transactions FROM MobileSales;
```

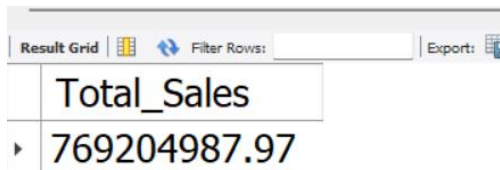


The screenshot shows the Power BI interface with a 'Result Grid' tab selected. The grid contains a single row with the header 'Total\_Transactions' and the value '3835'. Above the grid, there is a 'Filter Rows' button and an 'Export' button. The grid is displayed in a compact view.

Total_Transactions
3835

### -- 2. Total Sales (Revenue Generated)

```
SELECT SUM(Total_Sales) AS Total_Sales FROM MobileSales;
```

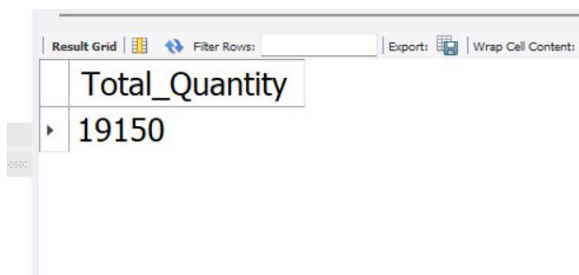


The screenshot shows the Power BI interface with a 'Result Grid' tab selected. The grid contains a single row with the header 'Total\_Sales' and the value '769204987.97'. Above the grid, there is a 'Filter Rows' button and an 'Export' button. The grid is displayed in a compact view.

Total_Sales
769204987.97

### -- 3. Total Quantity (Units Sold)

```
SELECT SUM(Units_Sold) AS Total_Quantity FROM MobileSales;
```



The screenshot shows the Power BI interface with a 'Result Grid' tab selected. The grid contains a single row with the header 'Total\_Quantity' and the value '19150'. Above the grid, there is a 'Filter Rows' button, an 'Export' button, and a 'Wrap Cell Content' button. The grid is displayed in a compact view.

Total_Quantity
19150

#### -- 4. Average Price Per Unit

```
SELECT AVG(Price_Per_Unit) AS Average_Price FROM MobileSales;
```

Result Grid		Filter Rows:	Export:
	Average_Price		
▶	40114.036816		

### POWER BI MOBILE SALES INSIGHTS :

#### -- 1.Total Sales by City

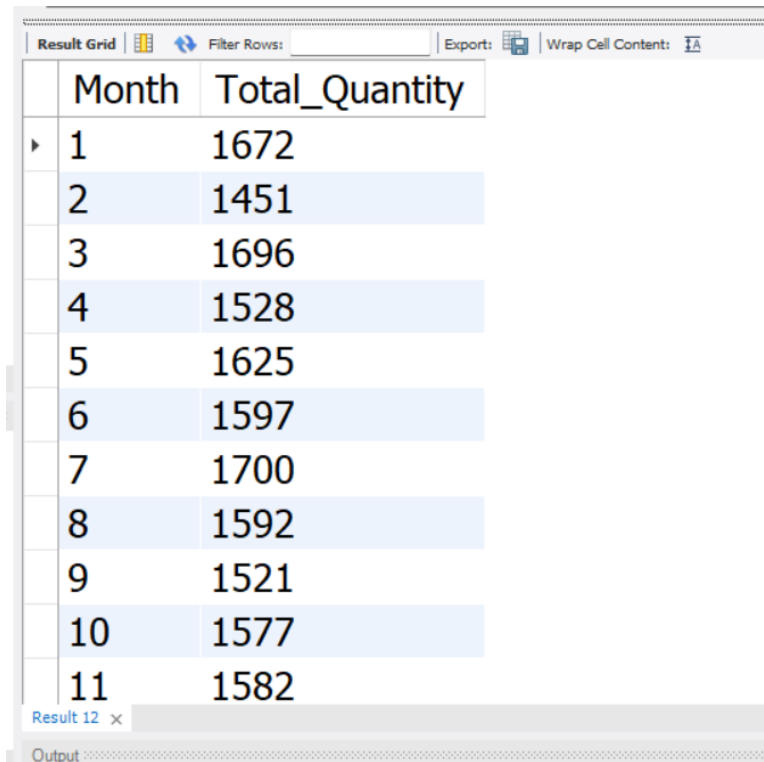
```
SELECT City, SUM(Total_Sales) AS Total_Sales  
FROM MobileSales  
GROUP BY City  
ORDER BY Total_Sales DESC;
```

Result Grid		Filter Rows:	Export:	Wrap Cell Cont
	City	Total_Sales		
▶	Delhi	203883475.85		
	Mumbai	127191279.71		
	Ranchi	31018767.25		
	Chennai	30759533.53		
	Rajkot	27326700.55		
	Jodhpur	27172939.04		
	Bangalore	26994947.78		

Result 11 x

## -- 2. Total Quantity (Units Sold) by Month

```
SELECT MONTH(Date) AS Month, SUM(Units_Sold) AS Total_Quantity  
FROM MobileSales  
GROUP BY MONTH(Date)  
ORDER BY Month;
```



The screenshot shows a database query result grid with two columns: 'Month' and 'Total\_Quantity'. The data is as follows:

Month	Total_Quantity
1	1672
2	1451
3	1696
4	1528
5	1625
6	1597
7	1700
8	1592
9	1521
10	1577
11	1582

The interface includes a 'Result Grid' tab, a 'Filter Rows' field, an 'Export' button, and a 'Wrap Cell Content' checkbox. The status bar at the bottom indicates 'Result 12' and 'Output'.

## -- 3. Customer Ratings by Rating Status

```
SELECT  
CASE  
    WHEN Customer_Ratings >= 4 THEN 'Good'  
    WHEN Customer_Ratings > 2 THEN 'Average'  
    ELSE 'Poor'  
END AS Rating_Status,  
COUNT(Transaction_ID) AS Rating_Count  
FROM MobileSales  
GROUP BY Rating_Status;
```

Rating_Status	Rating_Count
Good	2331
Average	652
Poor	852

#### -- 4.count of Transaction\_ID by Payment Method

```
SELECT Payment_Method, COUNT(Transaction_ID) AS Transaction_Count
FROM MobileSales
GROUP BY Payment_Method;
```

Payment_Method	Transaction_Count
UPI	1011
Credit Card	947
Cash	929
Debit Card	948

#### -- 5.Total Sales by Mobile Model

```
SELECT Mobile_Model, SUM(Total_Sales) AS Total_Sales
FROM MobileSales
GROUP BY Mobile_Model
ORDER BY Total_Sales DESC;
```

Mobile_Model	Total_Sales
iPhone SE	59572003.52
OnePlus Nord	57888590.53
Galaxy Note 20	56005282.17
Vivo Y51	54837667.19
Galaxy S21	53270713.66
iPhone 11	51520221.17
Galaxy A51	50762058.67
iPhone 12	50523505.28
Vivo V20	49711091.60

-- 6.Total Sales by Day Name

```
SELECT Day_Name, SUM(Total_Sales) AS Total_Sales
FROM MobileSales
GROUP BY Day_Name
ORDER BY Day_Name desc;
```

Day_Name	Total_Sales
Wednesday	104914665.53
Tuesday	109566845.13
Thursday	106724167.28
Sunday	108083821.73
Saturday	114621857.80
Monday	113543379.95
Friday	111750250.55

-- 7.Total Sales and Same Period Last Year by Year

```
SELECT
    YEAR(Date) AS Year,
    SUM(Total_Sales) AS Total_Sales,
    SUM(CASE WHEN YEAR(Date) = YEAR(CURRENT_DATE) - 1 THEN Total_Sales ELSE 0 END) AS
    Same_Period_Last_Year
FROM MobileSales
GROUP BY YEAR(Date)
ORDER BY Year DESC;
```

Year	Total_Sales	Same_Period_Last_
2024	195085408.30	195085408.30
2023	253314219.03	0.00
2022	261989840.26	0.00
2021	58815520.38	0.00



-- 8.Total Sales and Same Period Last Year by Quarter

SELECT

YEAR(Date) AS Year,

QUARTER(Date) AS Quarter,

SUM(Total\_Sales) AS Total\_Sales,

SUM(CASE WHEN YEAR(Date) = YEAR(CURRENT\_DATE) - 1 THEN Total\_Sales ELSE 0 END) AS  
Same\_Period\_Last\_Year

FROM MobileSales

GROUP BY YEAR(Date), QUARTER(Date)

ORDER BY Year DESC, Quarter DESC;

Result Grid   Filter Rows   Export   Wrap Cell Content				
	Year	Quarter	Total_Sales	Same_Period_Last_Year
▶	2024	4	6282248.80	6282248.80
	2024	3	58557473.89	58557473.89
	2024	2	64058249.15	64058249.15
	2024	1	66187436.46	66187436.46
	2023	4	63075153.57	0.00
	2023	3	62957201.97	0.00
	2023	2	64392562.93	0.00
	2023	1	62889300.56	0.00
	2022	4	64500000.00	0.00
Result 18 x				
Output				

## -- 9.Brand Transactions and Total Sales

SELECT

Brand,

COUNT(Transaction\_ID) AS Transactions,

SUM(Total\_Sales) AS Total\_Sales

FROM MobileSales

GROUP BY Brand

ORDER BY Total\_Sales DESC;

Brand	Transactions	Total_Sales
Apple	783	161615729.97
Samsung	775	160038054.50
OnePlus	768	153719438.84
Vivo	766	150078427.83
Xiaomi	743	143753336.83