Coffee Sales Analysis (SQL Queries)

1. Total Transactions:

```
select Count (transaction_id) as Total_Transactions
from  coffee_sales;
```

Output:

	Total_Transactions
1	149116

2. **Total Quantities Sold:**

```
select Sum(transaction_qty) as Total_Qty_Sold
from  coffee_sales;
```

Output:

	Total_Qty_Sold
1	214470

3. **Total Revenue Generated:**

```
select  Round(Sum(transaction_qty * unit_price), 2) AS  Revenue
from  coffee_sales;
```

Output:

	Revenue
1	698812.33

4. **Monthly Average Revenue:**

```
select Round(Sum(transaction_qty * unit_price / 6), 2) AS
Avg_Revenue
from coffee_sales;
```

Output:

	Avg_Revenue
1	116468.72

5. **Daily Average Revenue:**

```
SELECT Round(SUM(transaction_qty * unit_price) / COUNT(DISTINCT
transaction_date), 2) AS Daily_Avg_Sale
FROM Coffee_Sales
```

Output:

	Daily_Avg_Revenue
1	3860.84

6. **Revenue Generated based on Store Location:**

```
select store_location, ROUND(SUM(TRANSACTION_QTY * UNIT_PRICE),
2) AS Total_Revenue
from coffee_sales
group by store_location
order by Total_Revenue;
```

Output:

	store_location	Total_Revenue
1	Lower Manhattan	230057.25
2	Astoria	232243.91
3	Hell's Kitchen	236511.17

7. **Overall Sales on Week Days:**

```
select Week_Day, ROUND(SUM(TRANSACTION_QTY * UNIT_PRICE), 2) AS
Total_Revenue
from coffee_sales
group by Week_Day
order by
          CASE
          WHEN Week_Day = 'Sunday' THEN '1'
          WHEN Week_Day = 'Monday' THEN '2'
          WHEN Week_Day = 'Tuesday' THEN '3'
          WHEN Week_Day = 'Wednesday' THEN '4'
          WHEN Week_Day = 'Thursday' THEN '5'
          WHEN Week_Day = 'Friday' THEN '6'
          WHEN Week_Day = 'Saturday' THEN '7'
  END;
```

Output:

	Week_Day	Total_Revenue
1	Sunday	98330.31
2	Monday	101677.28
3	Tuesday	99455.94
4	Wednesday	100313.54
5	Thursday	100767.78
6	Friday	101373
7	Saturday	96894.48

8. **Monthly Revenue:**

```
select Month, ROUND(SUM(TRANSACTION_QTY * UNIT_PRICE), 2) AS
Total_Revenue
     from coffee_sales
group by Month
order by
CASE
WHEN Month = 'January' THEN '1'
WHEN Month = 'February' THEN '2'
WHEN Month = 'March' THEN '3'
WHEN Month = 'April' THEN '4'
WHEN Month = 'May' THEN '5'
WHEN Month = 'June' THEN '6'
END;
```

Output:

	Month	Total_Revenue
1	January	81677.74
2	February	76145.19
3	March	98834.68
4	April	118941.08
5	May	156727.76
6	June	166485.88

9. **Quantities Sold by Month**

```
select MONTH, COUNT(transaction_qty) AS Total_Qty_Sold
from Coffee_Sales
Group by Month
Order by
CASE
```

```
WHEN Month = 'January' THEN '1'
WHEN Month = 'February' THEN '2'
WHEN Month = 'March' THEN '3'
WHEN Month = 'April' THEN '4'
WHEN Month = 'May' THEN '5'
WHEN Month = 'June' THEN '6'
END;
```

Output:

	MONTH	Total_Qty_Sold
1	January	17314
2	February	16359
3	March	21229
4	April	25335
5	May	33527
6	June	35352

10. **Quantities Sold by Week_Day:**

```
select Week_Day, COUNT(transaction_qty) AS Total_Qty_Sold
from Coffee_Sales
Group by Week_Day
Order by
CASE
     WHEN Week_Day = 'Sunday' THEN '1'
     WHEN Week_Day = 'Monday' THEN '2'
     WHEN Week_Day = 'Tuesday' THEN '3'
     WHEN Week_Day = 'Wednesday' THEN '4'
     WHEN Week_Day = 'Thursday' THEN '5'
     WHEN Week_Day = 'Friday' THEN '6'
     WHEN Week_Day = 'Saturday' THEN '7'
END;
```

Output:

	Week_Day	Total_Qty_Sold
1	Sunday	21096
2	Monday	21643
3	Tuesday	21202
4	Wednesday	21310
5	Thursday	21654
6	Friday	21701
7	Saturday	20510

11. **Quantities Sold based on Product category**

```
select product_category, COUNT(transaction_qty) AS Total_Qty_Sold
From Coffee_Sales
Group by product_category;
```

Output:

	product_category	Total_Qty_Sold
1	Flavours	6790
2	Coffee	58416
3	Tea	45449
4	Packaged Chocolate	487
5	Loose Tea	1210
6	Branded	747
7	Coffee beans	1753
8	Drinking Chocolate	11468
9	Bakery	22796

12. **Revenue based on Product category**

```
select product_category, ROUND(SUM(TRANSACTION_QTY *
UNIT_PRICE), 2) AS Total_Revenue
from coffee_sales
group by product_category
Order by Total_Revenue DESC;
```

Output:

	product_category	Total_Revenue
1	Coffee	269952.45
2	Tea	196405.95
3	Bakery	82315.64
4	Drinking Chocolate	72416
5	Coffee beans	40085.25
6	Branded	13607
7	Loose Tea	11213.6
8	Flavours	8408.8
9	Packaged Chocolate	4407.64