

This Query to check the data:

```
SELECT * FROM SampleSuperstore;
```

```
1  SELECT * FROM SampleSuperstore;
2
3  SELECT count(*) as total_sales FROM SampleSuperstore ;
4
5  SELECT count(Quantity) as total_quantity FROM SampleSuperstore ;
6
7  SELECT count(Profit) as total_profit FROM SampleSuperstore ;
8
9  SELECT City ,sum(quantity) as total_quantity FROM SampleSuperstore GROUP by City ORDER by total_quantity DESC LIMIT 1;
0
1
2  SELECT City ,sum(Profit) as total_profit FROM SampleSuperstore GROUP by city ORDER by total_profit DESC LIMIT 6;
3
4  SELECT
5    CASE
6      WHEN Profit > 0 THEN Profit
7      WHEN Profit < 0 THEN Discount
8    END AS Category,
9    count(*) AS count_sales
0  FROM SampleSuperstore
```

Ship Mode	Segment	Country	City	State	Postal Code	Region	Category	Sub-Category	Sales	Quantity
Second Class	Consumer	United States	Columbus	Ohio	43229	East	Office Supplies	Fasteners	40.096	14
Standard Class	Consumer	United States	Roseville	California	95661	West	Furniture	Furnishings	43.12	14
Second Class	Consumer	United States	Long Beach	California	90805	West	Office Supplies	Paper	160.72	14
Standard Class	Consumer	United States	Arlington	Texas	76017	Central	Office Supplies	Storage	724.08	14
Standard Class	Home Office	United States	Rockford	Illinois	61107	Central	Furniture	Chairs	254.604	14
First Class	Corporate	United States	Tucson	Arizona	85705	West	Office Supplies	Binders	38.398	14

Query 1: Total number of orders

```
SELECT count(*) as total_sales FROM SampleSuperstore ;
```

```
1  SELECT * FROM SampleSuperstore;
2
3  SELECT count(*) as total_sales FROM SampleSuperstore ;
4
5  SELECT count(Quantity) as total_quantity FROM SampleSuperstore ;
6
7  SELECT count(Profit) as total_profit FROM SampleSuperstore ;
8
9  SELECT City ,sum(quantity) as total_quantity FROM SampleSuperstore GROUP by City ORDER by total_quantity DESC LIMIT 1;
10
11
12  SELECT City ,sum(Profit) as total_profit FROM SampleSuperstore GROUP by city ORDER by total_profit DESC LIMIT 6;
13
14  SELECT
15    CASE
16      WHEN Profit > 0 THEN Profit
17      WHEN Profit < 0 THEN Discount
18    END AS Category,
19    count(*) AS count_sales
20  FROM SampleSuperstore
```

```
total_sales
1 9994
```

Query 2: Total revenue (sum of Quantity column)

```
SELECT count(Quantity) as total_quantity FROM SampleSuperstore ;
```

```
1  SELECT * FROM SampleSuperstore;
2
3  SELECT count(*) as total_sales FROM SampleSuperstore ;
4
5  SELECT count(Quantity) as total_quantity FROM SampleSuperstore ;
6
7  SELECT count(Profit) as total_profit FROM SampleSuperstore ;
8
9  SELECT City ,sum(quantity) as total_quantity FROM SampleSuperstore GROUP by City ORDER by total_quantity DESC LIMIT 1;
10
11
12  SELECT City ,sum(Profit) as total_profit FROM SampleSuperstore GROUP by city ORDER by total_profit DESC LIMIT 6;
13
14
15  SELECT
16    CASE
17      WHEN Profit > 0 THEN Profit
18      WHEN Profit < 0 THEN Discount
19    END AS Category,
20    count(*) AS count_sales
21  FROM SampleSuperstore
```

total_quantity
1 9994

Query 3: Total profit generated

```
SELECT count(Profit) as total_profit FROM SampleSuperstore ;
```

```
1  SELECT * FROM SampleSuperstore;
2
3  SELECT count(*) as total_sales FROM SampleSuperstore ;
4
5  SELECT count(Quantity) as total_quantity FROM SampleSuperstore ;
6
7  SELECT count(Profit) as total_profit FROM SampleSuperstore ;
8
9  SELECT City ,sum(quantity) as total_quantity FROM SampleSuperstore GROUP by City ORDER by total_quantity DESC LIMIT 1;
10
11
12  SELECT City ,sum(Profit) as total_profit FROM SampleSuperstore GROUP by city ORDER by total_profit DESC LIMIT 6;
13
14
15  SELECT
16    CASE
17      WHEN Profit > 0 THEN Profit
18      WHEN Profit < 0 THEN Discount
19    END AS Category,
20    count(*) AS count_sales
21  FROM SampleSuperstore
```

total_profit
1 9994

Query 4: Best-selling quantity (based on total quantity)

SELECT City ,sum(quantity) as total_quantity FROM SampleSuperstore GROUP by City ORDER by total_quantity DESC LIMIT 1;

```
1  SELECT * FROM SampleSuperstore;
2
3  SELECT count(*) as total_sales FROM  SampleSuperstore ;
4
5  SELECT count(Quantity) as total_quantity FROM  SampleSuperstore ;
6
7  SELECT count(Profit) as total_profit FROM  SampleSuperstore ;
8
9  SELECT City ,sum(quantity) as total_quantity FROM  SampleSuperstore GROUP by City ORDER by total_quantity DESC LIMIT 1;
10
11
12  SELECT City ,sum(Profit) as total_profit FROM  SampleSuperstore GROUP by city ORDER by total_profit DESC LIMIT 6;
13
14  SELECT
15  CASE
16  WHEN Profit > 0 THEN Profit
17  WHEN Profit < 0 THEN Discount
18  END AS Category,
19  count(*) AS count_sales
20  FROM SampleSuperstore
```

City	total_quantity
New York City	3417

Query 5: Highest profit item

SELECT City ,sum(Profit) as total_profit FROM SampleSuperstore GROUP by city ORDER by total_profit DESC LIMIT 6;

```
1  SELECT * FROM SampleSuperstore;
2
3  SELECT count(*) as total_sales FROM  SampleSuperstore ;
4
5  SELECT count(Quantity) as total_quantity FROM  SampleSuperstore ;
6
7  SELECT count(Profit) as total_profit FROM  SampleSuperstore ;
8
9  SELECT City ,sum(quantity) as total_quantity FROM  SampleSuperstore GROUP by City ORDER by total_quantity DESC LIMIT 1;
10
11
12  SELECT City ,sum(Profit) as total_profit FROM  SampleSuperstore GROUP by city ORDER by total_profit DESC LIMIT 6;
13
14  SELECT
15  CASE
16  WHEN Profit > 0 THEN Profit
17  WHEN Profit < 0 THEN Discount
18  END AS Category,
19  count(*) AS count_sales
20  FROM SampleSuperstore
```

City	total_profit
New York City	62036.9837
Los Angeles	30440.7579
Seattle	29156.0967
San Francisco	17507.3854
Detroit	13181.7908
Lafayette	10018.3876

Query 6:Count of profitable Vs Category

```
SELECT CASE WHEN Profit > 0 THEN Profit WHEN Profit < 0 THEN Discount
END AS Category, count(*) AS count_sales
FROM SampleSuperstore
GROUP BY Category;
```

```
8   SELECT City ,sum(quantity) as total_quantity FROM  SampleSuperstore GROUP by City ORDER by total_quantity DESC LIMIT 1;
9
10
11
12   SELECT City ,sum(Profit) as total_profit FROM  SampleSuperstore GROUP by city ORDER by total_profit DESC LIMIT 6;
13
14   SELECT
15     CASE
16       WHEN Profit > 0 THEN Profit
17       WHEN Profit < 0 THEN Discount
18     END AS Category,
19     count(*) AS count_sales
20   FROM SampleSuperstore
21   GROUP by Category;
22
23   SELECT Sales ,sum(Profit) As Total_loss FROM SampleSuperstore GROUP by Sales ORDER by total_loss ASC LIMIT 5;
24
25
26   SELECT avg(Discount) As Average_discount FROM SampleSuperstore;
27
```

Category	count_sales
1 41.9136	2121
2 6.8714	6026
3 90.7152	1847

Query 7:Top 5 Highest Profit orders

```
SELECT Sales ,sum(Profit) As Total_loss
FROM SampleSuperstore
GROUP BY Sales
ORDER BY total_loss ASC
LIMIT 5;
```

```
8   SELECT City ,sum(quantity) as total_quantity FROM  SampleSuperstore GROUP by City ORDER by total_quantity DESC LIMIT 1;
9
10
11
12   SELECT City ,sum(Profit) as total_profit FROM  SampleSuperstore GROUP by city ORDER by total_profit DESC LIMIT 6;
13
14   SELECT
15     CASE
16       WHEN Profit > 0 THEN Profit
17       WHEN Profit < 0 THEN Discount
18     END AS Category,
19     count(*) AS count_sales
20   FROM SampleSuperstore
21   GROUP by Category;
22
23   SELECT Sales ,sum(Profit) As Total_loss FROM SampleSuperstore GROUP by Sales ORDER by total_loss ASC LIMIT 5;
24
25
26   SELECT avg(Discount) As Average_discount FROM SampleSuperstore;
27
```

Sales	Total_loss
1 4499.985	-6599.978
2 7999.98	-3839.9904
3 2177.584	-3701.8928
4 2549.985	-3399.98
5 1889.99	-2929.4845

Query 8: Average Discount

```
SELECT avg(Discount) As Average_discount FROM SampleSuperstore;
```

```
8   SELECT City ,sum(quantity) as total_quantity FROM  SampleSuperstore GROUP by City ORDER by total_quantity DESC LIMIT 1;
9
10
11
12  SELECT City ,sum(Profit) as total_profit FROM  SampleSuperstore GROUP by city ORDER by total_profit DESC LIMIT 6;
13
14  SELECT
15    CASE
16      WHEN Profit > 0  THEN Profit
17      WHEN Profit < 0  THEN Discount
18    END AS Category,
19    count(*) AS count_sales
20  FROM SampleSuperstore
21  GROUP by Category;
22
23  SELECT Sales ,sum(Profit) As Total_loss FROM SampleSuperstore GROUP by Sales ORDER by total_loss ASC LIMIT 5;
24
25
26  SELECT avg(Discount) As Average_discount FROM SampleSuperstore;
27
```

Average_discount
1 0.15620272163298

Query 9: Correlation between amount and profit (insight)

```
SELECT(sum(Quantity*Profit)*sum(Quantity)*sum(Profit)/count(*))/(sqrt((sum(Quantity*Quantity)*sum(quantity)/count(*)))*sqrt((sum(profit*profit)-sum(profit)*sum(profit)/count(*)))) as Correlation_Coefficient FROM SampleSuperstore;
```

```
19  count(*) AS count_sales
20  FROM SampleSuperstore
21  GROUP by Category;
22
23  SELECT Sales ,sum(Profit) As Total_loss FROM SampleSuperstore GROUP by Sales ORDER by total_loss ASC LIMIT 5;
24
25
26  SELECT avg(Discount) As Average_discount FROM SampleSuperstore;
27
28  SELECT (sum(Quantity*Profit)-sum(Quantity)*sum(Profit)/count(*))/sqrt((sum(Quantity*Quantity)-sum(quantity)/count(*)))*sqrt((sum(profit*profit)-sum(profit)*sum(profit)/count(*)))
29
30
31  SELECT * FROM SampleSuperstore ORDER by Quantity DESC LIMIT 25;
32
33
34
35
36
37
38
```

Correlation_Coefficient
1 0.0335453249351976

Query 10: Quantity DESC order from Samplesuperstore

```
SELECT * FROM SampleSuperstore ORDER by Quantity DESC LIMIT 25;
```

```
19  count(*) AS count_sales
20  FROM SampleSuperstore
21  GROUP by Category;
22
23  SELECT Sales ,sum(Profit) AS Total_loss FROM SampleSuperstore GROUP by Sales ORDER by total_loss ASC LIMIT 5;
24
25
26  SELECT avg(Discount) As Average_discount FROM SampleSuperstore;
27
28  SELECT (sum(Quantity*Profit)-sum(Quantity)*sum(Profit)/count(*))/(sqrt((sum(Quantity*Quantity)-sum(quantity)/count(*)))*sqrt((su
29
30
31  SELECT * FROM SampleSuperstore ORDER by Quantity DESC LIMIT 25;
32
33
34
35
36
37
38
```

	Ship Mode	Segment	Country	City	State	Postal Code	Region	Category	Sub-Category	Sales	Quantity
1	Second Class	Consumer	United States	Columbus	Ohio	43229	East	Office Supplies	Fasteners	40.096	14
2	Standard Class	Consumer	United States	Roseville	California	95661	West	Furniture	Furnishings	43.12	14
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5	Standard Class	Home Office	United States	Rockford	Illinois	61107	Central	Furniture	Chairs	254.604	14
6	First Class	Corporate	United States	Tucson	Arizona	85705	West	Office Supplies	Binders	38.388	14