

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;
10
11 SELECT City ,sum(Profit) as total_profit FROM SampleSuperstore GROUP by city ORDER by total_profit DESC LIMIT 6;
12
13 SELECT
14 CASE
15 WHEN Profit > 0 THEN Profit
16 WHEN Profit < 0 THEN Discount
17 END AS Category,
18 count(*) AS count_sales
19 FROM SampleSuperstore
20
```

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	38.388	14

Query 1: Total number of orders

SELECT count(*) as total_sales FROM SampleSuperstore ;

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

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

	total_quantity
1	9994

Query 3: Total profit generated

SELECT count(Profit) as total_profit FROM SampleSuperstore ;

```
1 SELECT * FROM SampleSuperstore;
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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;
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11 SELECT City ,sum(Profit) as total_profit FROM SampleSuperstore GROUP by city ORDER by total_profit DESC LIMIT 6;
12
13 SELECT
14 CASE
15 WHEN Profit > 0 THEN Profit
16 WHEN Profit < 0 THEN Discount
17 END AS Category,
18 count(*) AS count_sales
19 FROM SampleSuperstore
20
```

	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
1	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;

```
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5  SELECT count(Quantity) as total_quantity FROM SampleSuperstore ;
6
7  SELECT count(Profit) as total_profit FROM SampleSuperstore ;
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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
1	New York City	62036.9837
2	Los Angeles	30440.7579
3	Seattle	29156.0967
4	San Francisco	17507.3854
5	Detroit	13181.7908
6	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
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
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
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;
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16  WHEN Profit > 0 THEN Profit
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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
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;
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18  END AS Category,
19  count(*) AS count_sales
20  FROM SampleSuperstore
21  GROUP by Category;
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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(*))/(qrt((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(*)))) as Correlation_Coefficient FROM SampleSuperstore;
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((sum
29
30
31 SELECT * FROM SampleSuperstore ORDER by Quantity DESC LIMIT 25;
```

	Ship Mode	Segment	Country	City	State	Postal Code	Region	Category	Sub-Category	Sales	Quantity
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