

US Retail Superstore Sales SQL Case Study Analysis Using MySQL Workbench

Create database
`us_retail_superstore;`

`use us_retail_superstore;`

`select * from samplesuperstore;`

`select count(*) from
samplesuperstore`

7 • `select * from samplesuperstore;`

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows: |

Ship Mode	Segment	Country	City	State	Postal Code	Region	Category	sub_Category	Sales	Quantity	Discount	Profit
Second Class	Consumer	United States	Henderson	Kentucky	42420	South	Furniture	Bookcases	261.96	2	0	41.9136
Second Class	Consumer	United States	Henderson	Kentucky	42420	South	Furniture	Chairs	731.94	3	0	219.582
Second Class	Corporate	United States	Los Angeles	California	90036	West	Office Supplies	Labels	14.62	2	0	6.8714
Standard Class	Consumer	United States	Fort Lauderdale	Florida	33311	South	Furniture	Tables	957.5775	5	0.45	-383.031
Standard Class	Consumer	United States	Fort Lauderdale	Florida	33311	South	Office Supplies	Storage	22.368	2	0.2	2.5164
Standard Class	Consumer	United States	Los Angeles	California	90032	West	Furniture	Furnishings	48.86	7	0	14.1694
Standard Class	Consumer	United States	Los Angeles	California	90032	West	Office Supplies	Art	7.28	4	0	1.9656
Standard Class	Consumer	United States	Los Angeles	California	90032	West	Technology	Phones	907.152	6	0.2	90.7152
Standard Class	Consumer	United States	Los Angeles	California	90032	West	Office Supplies	Binders	18.504	3	0.2	5.7825
Standard Class	Consumer	United States	Los Angeles	California	90032	West	Office Supplies	Appliances	114.9	5	0	34.47
Standard Class	Consumer	United States	Los Angeles	California	90032	West	Furniture	Tables	1706.184	9	0.2	85.3092
Standard Class	Consumer	United States	Los Angeles	California	90032	West	Technology	Phones	911.424	4	0.2	68.3568
Standard Class	Consumer	United States	Concord	North C...	28027	South	Office Supplies	Paper	15.552	3	0.2	5.4432
Standard Class	Consumer	United States	Seattle	Washing...	98103	West	Office Supplies	Binders	407.976	3	0.2	132.5922
Standard Class	Home Off...	United States	Fort Worth	Texas	76106	Central	Office Supplies	Appliances	68.81	5	0.8	-123.858
Standard Class	Home Off...	United States	Fort Worth	Texas	76106	Central	Office Supplies	Binders	2.544	3	0.8	-3.816
Standard Class	Consumer	United States	Madison	Wisconsin	53711	Central	Office Supplies	Storage	665.88	6	0	13.3176
Second Class	Consumer	United States	West Jordan	Utah	84084	West	Office Supplies	Storage	55.5	2	0	9.99
Standard Class	Consumer	United States	San Francisco	California	94100	West	Office Supplies	Art	8.55	2	0	2.4814

8

9 • `select count(*) from samplesuperstore;`

< | Result Grid | Filter Rows: | Export: | Wrap



	count(*)
▶	9994

Scenario 1

-- Summary Statistics: -- Obtain summary statistics such as total sales, average sales, total profit, average profit, etc.,
-- to understand the overall performance.

```
SELECT SUM(Sales) AS TotalSales,  
       AVG(Sales) AS AverageSales, SUM(Profit) AS TotalProfit,  
       AVG(Profit) AS AverageProfit  
FROM samplesuperstore;
```

```
11 -- Scenario 1 -- Summary Statistics:  
12 -- Obtain summary statistics such as total sales, average sales, total profit, average profit, etc.,  
13 -- to understand the overall performance.  
14  
15 • SELECT  
16     SUM(Sales) AS TotalSales,  
17     AVG(Sales) AS AverageSales,  
18     SUM(Profit) AS TotalProfit,  
19     AVG(Profit) AS AverageProfit  
20 FROM samplesuperstore;  
21
```

Result Grid				
Filter Rows: <input type="text"/>				
Export:  Wrap Cell Content: 				
TotalSales	AverageSales	TotalProfit	AverageProfit	
2297200.860299955	229.8580008304938	286397.0217000013	28.656896307784802	

Scenario 2

--Sales Distribution by Category

--Analyze sales distribution across different categories to identify top-selling categories.

```
SELECT Category, SUM(Sales) AS TotalSales
FROM samplesuperstore
GROUP BY Category
ORDER BY TotalSales DESC;
```

```
23 -- Scenario 2-- Sales Distribution by Category:
24 -- Analyze sales distribution across different categories to identify top-selling categories.
25
26 • SELECT
27     Category,
28     SUM(Sales) AS TotalSales
29 FROM
30     samplesuperstore
31 GROUP BY
32     Category
33 ORDER BY
34     TotalSales DESC;
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
Category	TotalSales			
Technology	836154.0329999966			
Furniture	741999.7952999998			
Office Supplies	719047.0320000029			

Scenario 3

-- Top Selling Products:
--Identify the top-selling products based on sales quantity or revenue.

```
desc samplesuperstore;
```

--Scenario 4

```
ALTER TABLE samplesuperstore-- RENAME  
COLUMN Sub-Category TO sub_Category;  
--giving error
```

```
ALTER TABLE samplesuperstoreCHANGE  
COLUMN `Sub-Category` sub_Category  
varchar(50);
```

```
SELECT Sub_Category,  
SUM(Quantity) AS TotalQuantity,  
SUM(Sales) AS TotalSales  
FROM samplesuperstore  
GROUP BY Sub_Category  
ORDER BY TotalSales DESC;
```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
Sub_Category	TotalQuantity	TotalSales	
Phones	3289	330007.0540000001	
Chairs	2356	328449.10300000076	
Storage	3158	223843.60800000012	
Tables	1241	206965.5320000001	
Binders	5974	203412.7330000001	
Machines	440	189238.63099999996	
Accessories	2976	167380.3180000001	
Copiers	234	149528.02999999994	
Bookcases	868	114879.99629999997	
Appliances	1729	107532.161	
Furnishings	3563	91705.16400000005	
Paper	5178	78479.20600000002	
Supplies	647	46673.538000000015	
Art	3000	27118.791999999954	
Envelopes	906	16476.402	
Labels	1400	12486.312	
Fasteners	914	3024.2799999999997	

--Scenario 5

-- Profit Analysis by Segment:

-- Analyze profit across different market segments.

```
SELECT Segment,  
SUM(Profit) AS TotalProfit  
FROM samplesuperstore  
GROUP BY Segment;
```

```
59  
60 -- Scenario 5 -- Profit Analysis by Segment:  
61 -- Analyze profit across different market segments.  
62  
63 • SELECT  
64     Segment,  
65     SUM(Profit) AS TotalProfit  
66 FROM  
67     samplesuperstore  
68 GROUP BY  
69     Segment;  
70
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

Segment	TotalProfit
Consumer	134119.20919999972
Corporate	91979.13400000021
Home Office	60298.678500000075

-- Scenario 6

-- Discount Impact on Profit:

-- Investigate the impact of discounts on profit.

```
SELECT Discount, AVG(Profit) AS  
        AverageProfit  
FROM samplesuperstore  
GROUP BY Discount  
ORDER BY Discount;
```

```
72 -- Scenario 6 -- Discount Impact on Profit:  
73 -- Investigate the impact of discounts on profit.  
74  
75 • SELECT  
76     Discount,  
77     AVG(Profit) AS AverageProfit  
78 FROM  
79     samplesuperstore  
80 GROUP BY  
81     Discount  
82 ORDER BY  
83     Discount;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content

	Discount	AverageProfit
▶	0	66.90029245518961
	0.1	96.05507446808508
	0.15	27.288298076923077
	0.2	24.702572053595855
	0.3	-45.679636123348004
	0.32	-88.56065555555558
	0.4	-111.92742912621364
	0.45	-226.64646363636365
	0.5	-310.703456060606
	0.6	-43.077211594202915
	0.7	-95.87405956937788
	0.8	-101.79679733333329

-- Scenario 7

Geographical Analysis:

*-- Analyze sales performance
by country, city, or region*

```
SELECT Country,  
SUM(Sales) AS TotalSales  
FROM samplesuperstore  
GROUP BY Country  
ORDER BY TotalSales  
DESC;
```

```
84  
85 -- Scenario 7-- Geographical Analysis:  
86 -- Analyze sales performance by country, city, or region.  
87  
88 • SELECT  
89     Country,  
90     SUM(Sales) AS TotalSales  
91 FROM  
92     samplesuperstore  
93 GROUP BY  
94     Country  
95 ORDER BY  
96     TotalSales DESC;  
97
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	Country	TotalSales
▶	United States	2297200.860299955