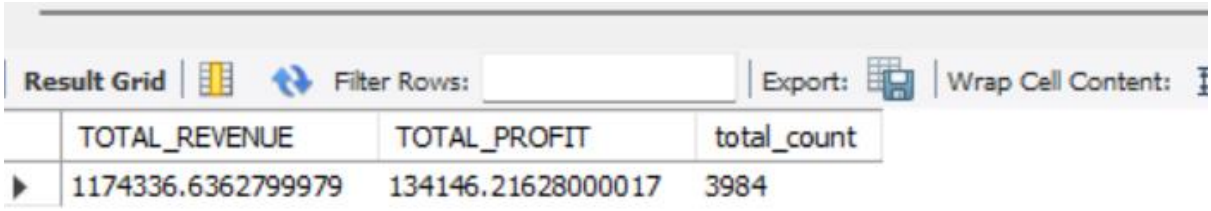
```
create database if not exists indexing;

use indexing;


--1. find the total revenue AND PROFITgenerated

SELECT * FROM SUPERSTORE;

SELECT SUM(SALES) AS TOTAL_REVENUE,SUM(PROFIT) AS TOTAL_PROFIT FROM SUPERSTORE;
```



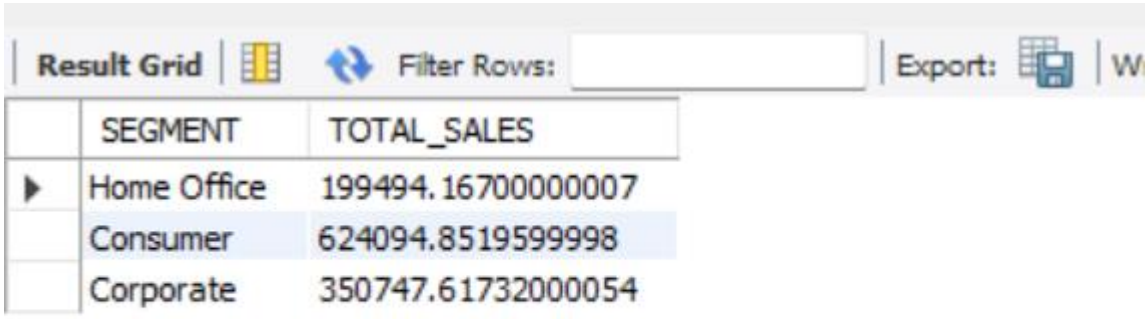
Result Grid | Filter Rows: | Export: | Wrap Cell Content:

TOTAL_REVENUE	TOTAL_PROFIT	total_count
1174336.6362799979	134146.21628000017	3984

```
-- 2.FIND THE SEGMENTWISE DISTRIBUTION OF THE SALES

SELECT SEGMENT,SUM(SALES) AS TOTAL_SALES FROM SUPERSTORE

GROUP BY SEGMENT;
```



Result Grid | Filter Rows: | Export: | W

SEGMENT	TOTAL_SALES
Home Office	199494.16700000007
Consumer	624094.8519599998
Corporate	350747.61732000054

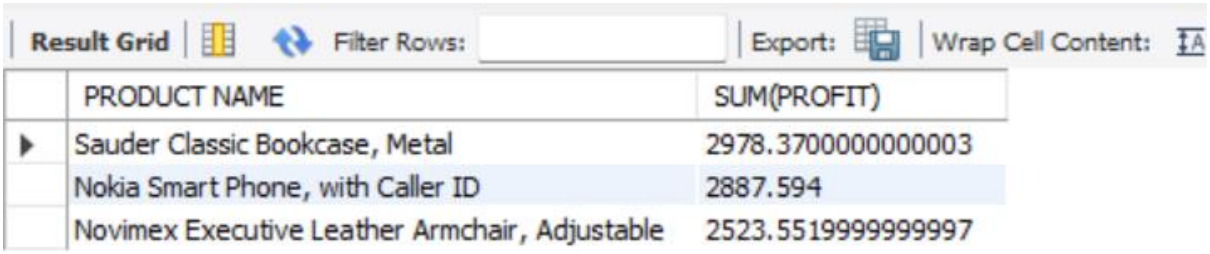
```
-- 3.find the top 3 most profitable products

SELECT `PRODUCT NAME`,SUM(PROFIT) FROM SUPERSTORE

GROUP BY `PRODUCT NAME`

ORDER BY SUM(PROFIT) DESC
```

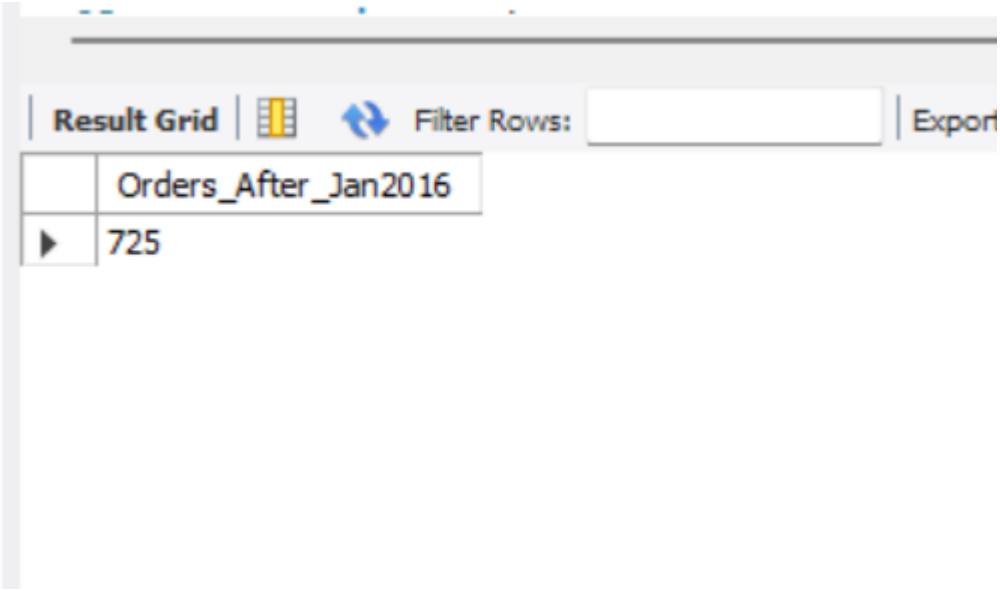
LIMIT 3;



PRODUCT NAME	SUM(PROFIT)
Sauder Classic Bookcase, Metal	2978.3700000000003
Nokia Smart Phone, with Caller ID	2887.594
Novimex Executive Leather Armchair, Adjustable	2523.5519999999997

-- 4.find how many orders are placced after January 2016

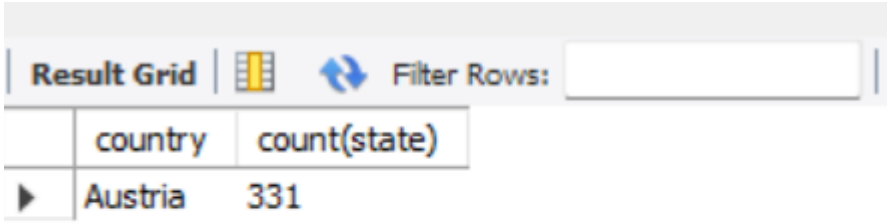
```
SELECT
  COUNT(DISTINCT `Order ID`) AS Orders_After_Jan2016
FROM superstore
WHERE `Order Date` > '2016-01-31';
```



Orders_After_Jan2016
725

-- 5.How many states from austria are under the roof of business?

```
select country,count(state) from superstore
group by country
having country = 'austria';
```

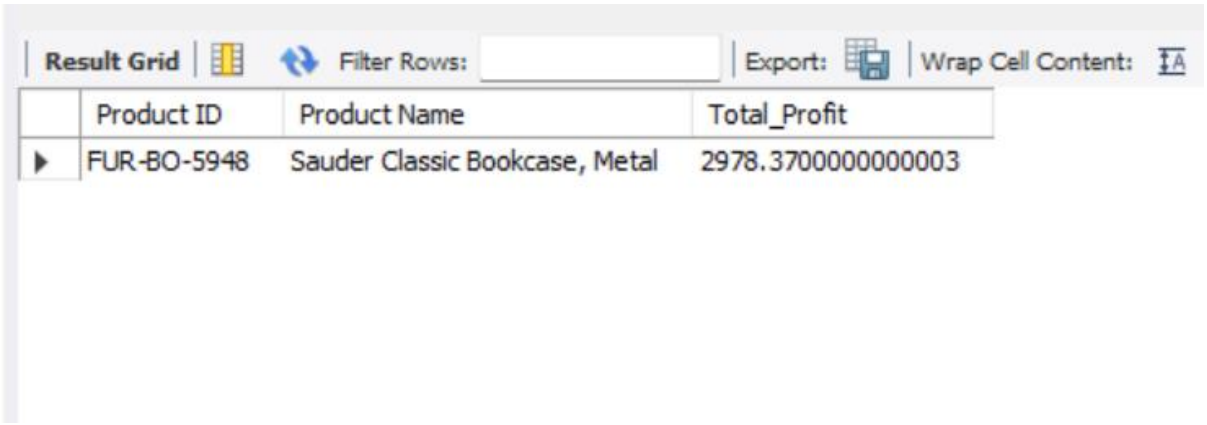

Result Grid | Filter Rows:

country	count(state)
Austria	331

-- 6. which products and subcategories are most and least profitable ?

-- Most profitable product

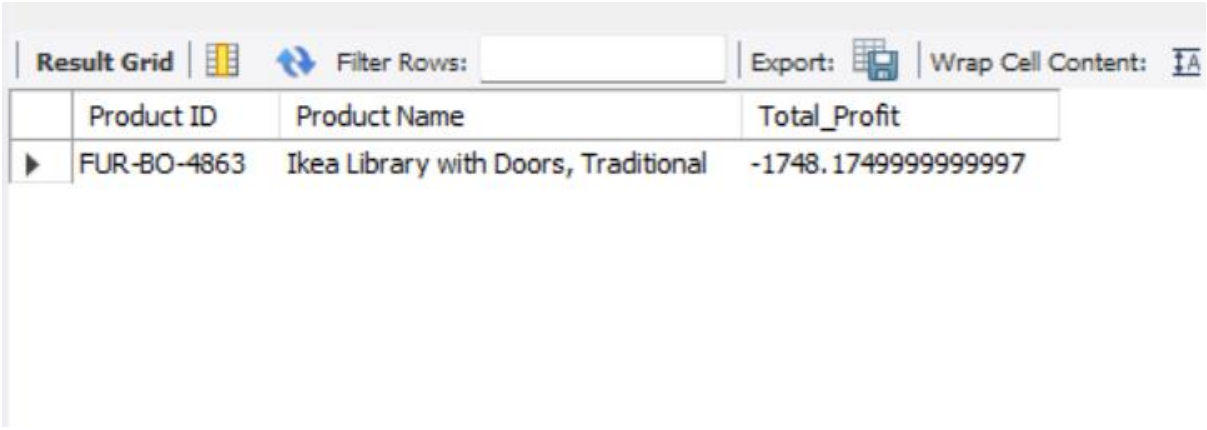
```
SELECT `Product ID`, `Product Name`, SUM(Profit) AS Total_Profit
FROM superstore
GROUP BY `Product ID`, `Product Name`
ORDER BY Total_Profit DESC
LIMIT 1;
```


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

Product ID	Product Name	Total_Profit
FUR-BO-5948	Sauder Classic Bookcase, Metal	2978.3700000000003

-- Least profitable product

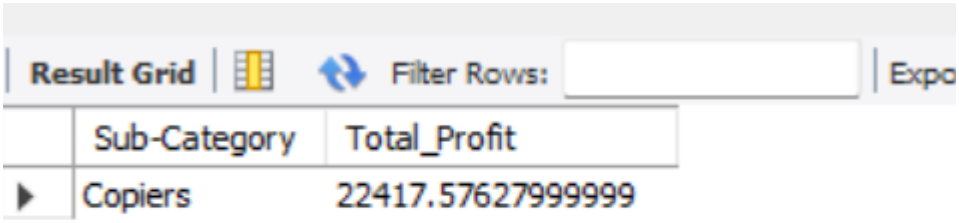
```
SELECT `Product ID`, `Product Name`, SUM(Profit) AS Total_Profit
FROM superstore
GROUP BY `Product ID`, `Product name`
ORDER BY Total_Profit ASC
LIMIT 1;
```



Product ID	Product Name	Total_Profit
FUR-BO-4863	Ikea Library with Doors, Traditional	-1748.1749999999997

-- Most profitable sub-category

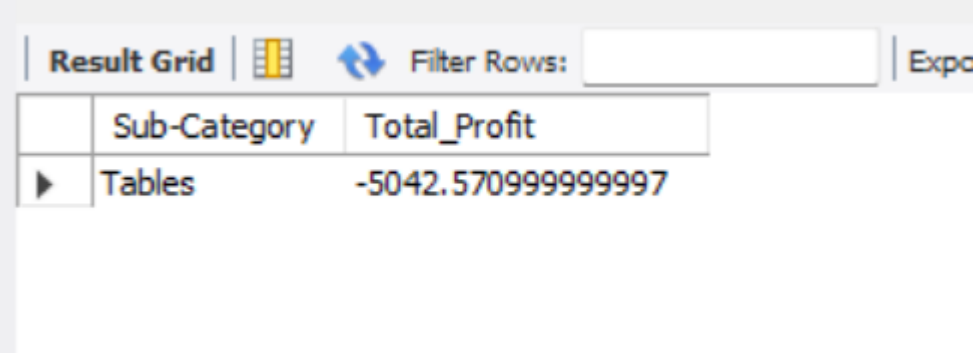
```
SELECT Sub_Category, SUM(Profit) AS Total_Profit
FROM superstore
GROUP BY Sub_Category
ORDER BY Total_Profit DESC
LIMIT 1;
```



Sub-Category	Total_Profit
Copiers	22417.57627999999

-- Least profitable sub-category

```
SELECT Sub_Category, SUM(Profit) AS Total_Profit
FROM superstore
GROUP BY Sub_Category
ORDER BY Total_Profit ASC
LIMIT 1;
```

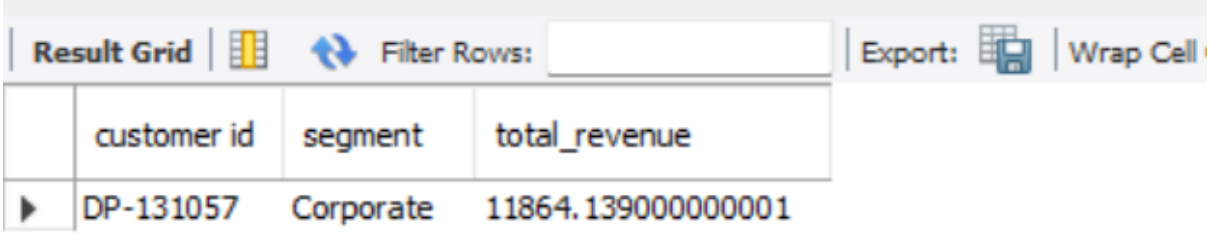


Result Grid | Filter Rows: | Expo

Sub-Category	Total_Profit
Tables	-5042.570999999997

-- 7.Which customer segment contributes the most to the total revenue?

```
select * from superstore;
select `customer id`,segment,sum(sales) as total_revenue from superstore
group by segment,`customer id`
order by sum(sales) desc
limit 1;
```

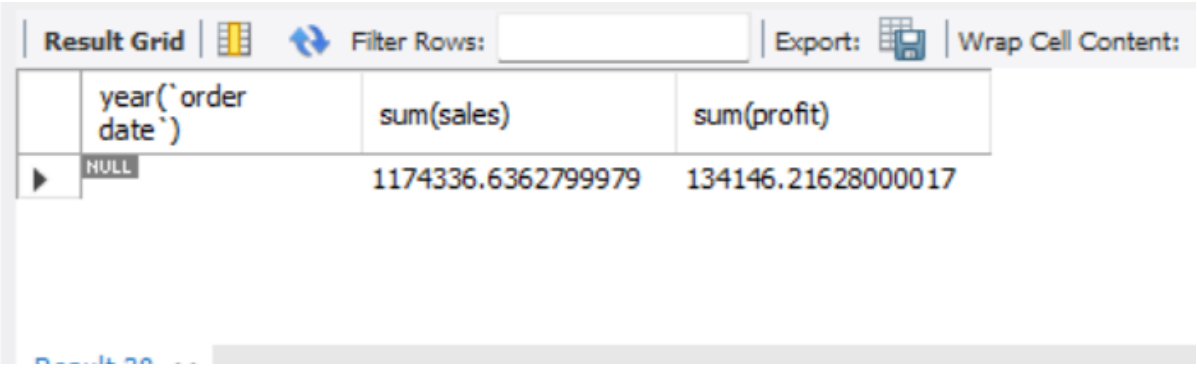


Result Grid | Filter Rows: | Export: | Wrap Cell

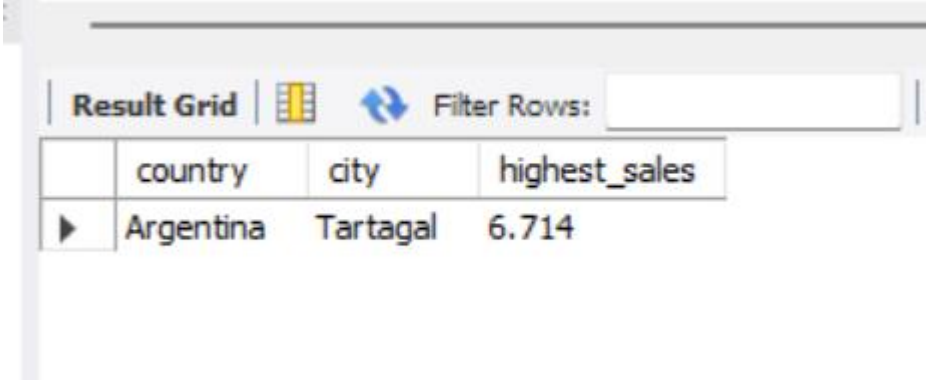
customer id	segment	total_revenue
DP-131057	Corporate	11864.139000000001

-- 8.What is the year-over-year growth in sales and Profit?

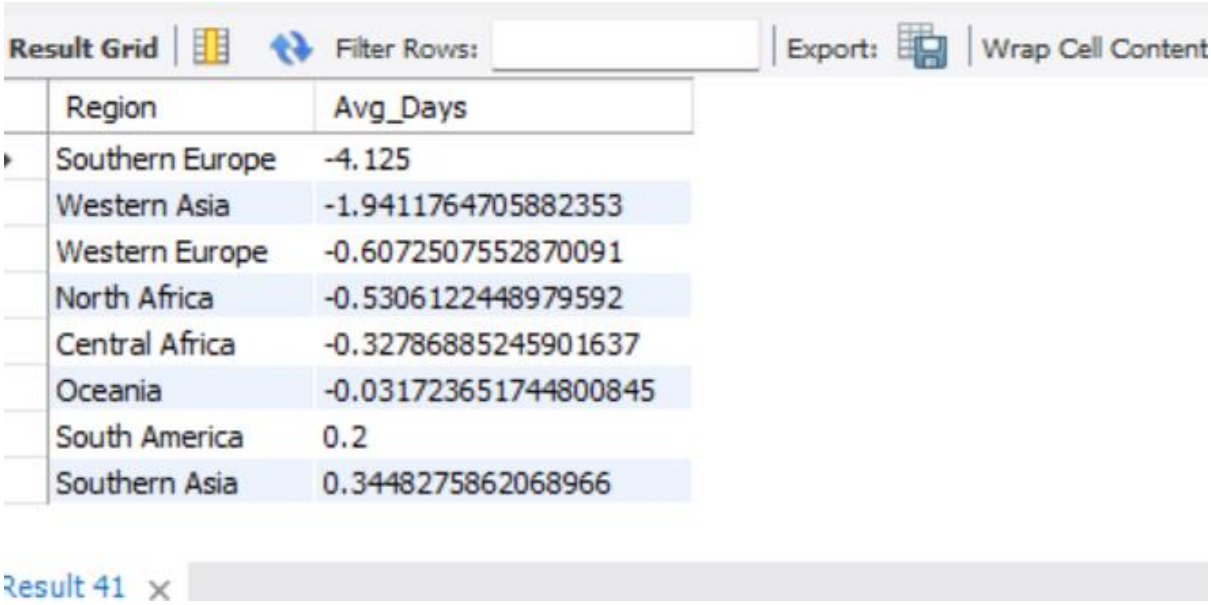
```
select * from superstore;
select year(`order date`),sum(sales),sum(profit)
from superstore
group by year(`order date`);
```




```
-- 9. Which countries and cities are driving the highest sales?
select country,city,sum(sales) as highest_sales from superstore
group by country,city
order by sum(sales)
limit 1;
```




```
-- 10. What is the average delivery time from order to ship date across regions?
 SELECT
 Region,
 AVG(`Ship Date`-`Order Date`) AS Avg_Days
FROM superstore
WHERE `Ship Date`IS NOT NULL AND `Order Date` IS NOT NULL
GROUP BY Region
ORDER BY Avg_Days;
```



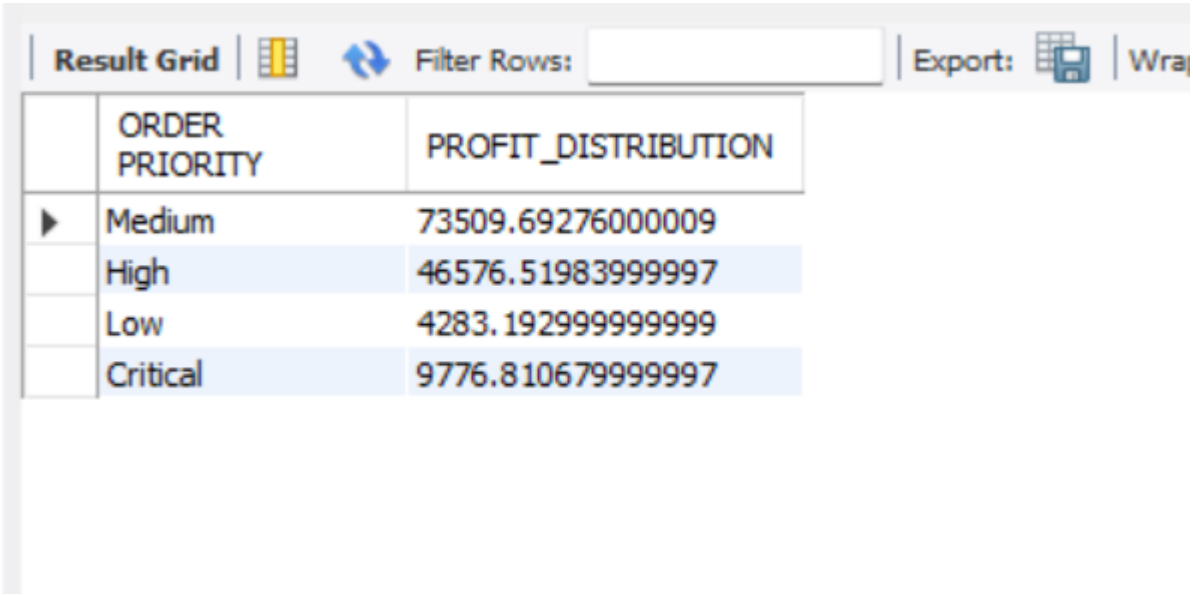
Result Grid | Filter Rows: | Export: | Wrap Cell Content

Region	Avg_Days
Southern Europe	-4.125
Western Asia	-1.9411764705882353
Western Europe	-0.6072507552870091
North Africa	-0.5306122448979592
Central Africa	-0.32786885245901637
Oceania	-0.031723651744800845
South America	0.2
Southern Asia	0.3448275862068966

Result 41 ×

-- 11.what is the profit distribution across order priority?

```
select `ORDER PRIORITY`,sum(profit) AS PROFIT_DISTRIBUTION from superstore
GROUP BY `ORDER PRIORITY`;
```



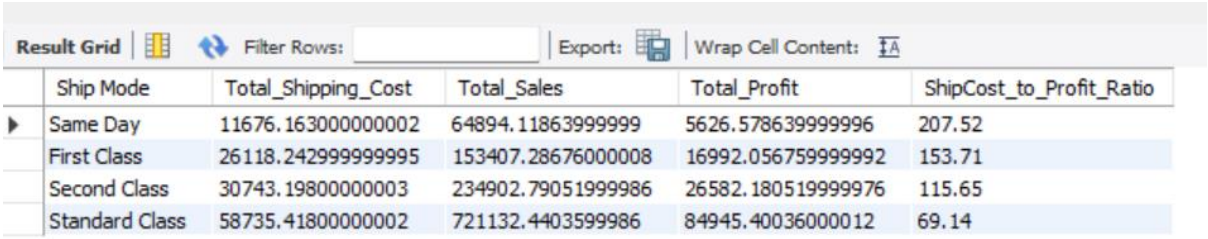
Result Grid | Filter Rows: | Export: | Wra

ORDER PRIORITY	PROFIT_DISTRIBUTION
Medium	73509.69276000009
High	46576.51983999997
Low	4283.192999999999
Critical	9776.810679999997

-- 12. Suggest data-driven recommendations for improving profit and reducing losses.

```
SELECT
 `Ship Mode`,
 SUM(`Shipping Cost`) AS Total_Shipping_Cost,
 SUM(Sales) AS Total_Sales,
```

```
  SUM(Profit) AS Total_Profit,
  ROUND(SUM(`Shipping Cost`) * 100.0 / NULLIF(SUM(Profit),0),2) AS ShipCost_to_Profit_Ratio
FROM superstore
GROUP BY `Ship Mode`
ORDER BY ShipCost_to_Profit_Ratio DESC;
```



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

Ship Mode	Total_Shipping_Cost	Total_Sales	Total_Profit	ShipCost_to_Profit_Ratio
Same Day	11676.163000000002	64894.11863999999	5626.578639999996	207.52
First Class	26118.242999999995	153407.28676000008	16992.056759999992	153.71
Second Class	30743.19800000003	234902.79051999986	26582.180519999976	115.65
Standard Class	58735.41800000002	721132.4403599986	84945.40036000012	69.14