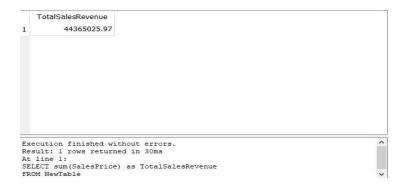
## **SQL PROJCET SYNTAX**

```
ALTER TABLE data1
ADD COLUMN SalesPrice as (Orderqty * unitprice);
ALTER TABLE data1
ADD COLUMN CostPrice as (Orderqty * unitcost);
ALTER TABLE data1
ADD COLUMN Profit as (SalesPrice - CostPrice);
CREATE TABLE NewTable as
SELECT
       OrderNumber,
       SalesChannel,
       Salesteamindex,
       Orderqty,
       unitprice,
       unitcost,
       SalesPrice,
       CostPrice,
       Profit,
       data2.SalesTeam,
       data2.Region,
       data3.ProductCategory,
       data3.ProductName,
       data4.state
FROM
       data1
INNER JOIN
       data2 on data1.Salesteamindex = data2.Id_Index
INNER JOIN
       data3 on data1.Salesteamindex = data3.Index_Id
INNER JOIN
       data4 on data1.Salesteamindex = data4.id;
```

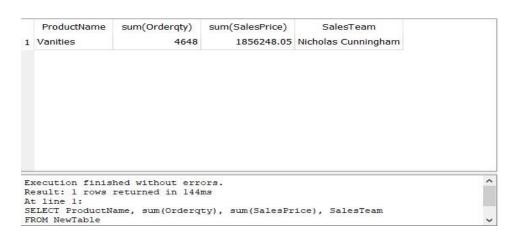
 SELECT sum(SalesPrice) as TotalSalesRevenue FROM NewTable



 SELECT ProductName, Orderqty, OrderNumber, SalesChannel FROM NewTable GROUP by ProductName HAVING SalesChannel in ("In-Store", "Distributor");

	ProductName	Orderqty	OrderNumber	SalesChanne
1	Accessories	7	S078	Distributor
2	Bakeware	8	SO37	In-Store
3	Cocktail Glasses	3	SO59	Distributor
4	Computers	4	S06	Distributor
5	Dining Furniture	4	S03	In-Store
6	Dinnerware	2	S07	In-Store
7	Mirrors	5	SO23	Distributor
8	Ornaments	2	SO40	In-Store
9	Photo Frames	2	SO29	Distributor
10	Serveware	5	S024	Distributor
11	Stemware	10	SO82	Distributor
12	Wine Storage	3	SO19	In-Store

 SELECT ProductName, sum(Orderqty), sum(SalesPrice), SalesTeam FROM NewTable GROUP by ProductName HAVING SalesTeam in ("Nicholas Cunningham");



## /\*SELECT avg(Orderqty) as average FROM NewTable\*/

SELECT \*
FROM NewTable
WHERE Orderqty > 5.5201;

	OrderNumber	SalesChannel	Salesteamindex	Orderqty	unitprice	unitcost	SalesPrice	CostPrice	Profit	SalesTea
	S01	Online	19	8	504.25	360.18	4034.0	2881.44	1152.56	Nicholas Cunn
	S04	Wholesale	9	9	330.81	236.3	2977.29	2126.7	850.59	Joshua Ryan
	S08	Online	21	8	273.99	195.71	2191.92	1565.68	626.24	Samuel Fowle
	S09	Wholesale	26	9	499.79	356.99	4498.11	3212.91	1285.2	Donald Reynol
	S011	Online	15	10	621.18	443.7	6211.8	4437.0	1774.8	Roger Alexano
	S013	Wholesale	18	8	348.32	248.8	2786.56	1990.4	796.16	Shawn Wallac
	S016	Online	24	8	209.67	149.77	1677.36	1198.16	479.2	Roy Rice
	S018	Wholesale	10	9	173.69	124.06	1563.21	1116.54	446.67	Jonathan Haw
	SO20	Distributor	10	6	387.17	276.55	2323.02	1659.3	663.72	Jonathan Haw
0	S021	Online	21	8	544.19	388.71	4353.52	3109.68	1243.84	Samuel Fowle
1	S026	Online	24	9	370.51	264.65	3334.59	2381.85	952.74	Roy Rice
2	S027	Wholesale	4	6	586.31	418.79	3517.86	2512.74	1005.12	Chris Armstro
3	S031	Wholesale	10	8	566.48	404.63	4531.84	3237.04	1294.8	Jonathan Haw
4	S032	In-Store	4	10	285.54	203.95	2855.4	2039.5	815.9	Chris Armstro
5	S035	In-Store	6	6	593.56	423.97	3561.36	2543.82	1017.54	Joshua Bennet
6	S037	In-Store	13	8	551.27	393.77	4410.16	3150.16	1260.0	Todd Roberts

## SELECT ProductName, sum(Orderqty) as QuantitiesOrdered FROM NewTable GROUP by ProductName ORDER by QuantitiesOrdered DESC LIMIT 10 OFFSET 0;

	ProductName	QuantitiesOrdered
1	Vanities	4648
2	Candles	4446
3	Wine Storage	4409
1	Basketball	4405
5	Dining Furniture	4376
5	Cookware	4360
7	Dinnerware	4326
3	Stemware	4299
9	TV and video	4282
10	Mirrors	4282

Execution finished without errors.

Result: 10 rows returned in 104ms
At line 1:
SELECT ProductName, sum(Orderqty) as QuantitiesOrdered
FROM NewTable
GROUP by ProductName
ORDER by QuantitiesOrdered DESC.

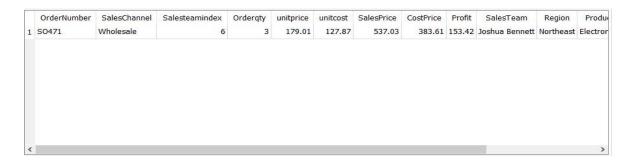
 SELECT state, sum(Orderqty) as OrderSold FROM NewTable GROUP by state HAVING state in ("Alabama");



7. SELECT \*

FROM NewTable

WHERE OrderNumber = "SO471";



 SELECT Region, avg(Profit) as AverageProfit FROM NewTable GROUP by Region

ORDER by AverageProfit DESC;

	Region	AverageProfit
1	West	635.15299492386
2	Midwest	634.480607400131
3	Northeast	632.862144864865
4	South	632.484858530404

 SELECT ProductCategory, count(OrderNumber) as OrderCounts FROM NewTable GROUP by ProductCategory HAVING OrderCounts >= 2000;

	ProductCategory	OrderCounts
1	Decoratives	3083
2	Drinkware	3029
3	Furniture	3049
4	Kitchenery	3094

## SELECT ProductName, sum(Orderqty) as TotalQuantities FROM NewTable GROUP by ProductName ORDER by TotalQuantities DESC LIMIT 5 OFFSET 0;

ProductName	TotalQuantities
Vanities	4648
Candles	4446
Wine Storage	4409
Basketball	4405
Dining Furniture	4376

SELECT ProductName, sum(Orderqty) as TotalQuantities FROM NewTable GROUP by ProductName ORDER by TotalQuantities ASC LIMIT 5 OFFSET 0;

	ProductName	TotalQuantities
1	Accessories	4035
2	Floral	4060
3	Photo Frames	4099
4	Bar Tools	4104
5	Bakeware	4122

SELECT ProductName as ExpensiveProducts, sum(Orderqty) as TotalQuantities, unitprice FROM NewTable
GROUP by ProductName
ORDER by unitprice DESC
LIMIT 5 OFFSET 0;

	ExpensiveProducts	TotalQuantities	unitprice
1	Wine Storage	4409	644.2
2	Ornaments	4271	614.08
3	Furniture Cushions	4129	579.53
4	Bar Tools	4104	551.55
5	Bakeware	4122	551.27

SELECT ProductName as CheapProducts, sum(Orderqty) as TotalQuantities, unitprice FROM NewTable
GROUP by ProductName
ORDER by TotalQuantities ASC
LIMIT 5 OFFSET 0;

	CheapProducts	TotalQuantities	unitprice
1	Accessories	4035	323.28
2	Floral	4060	273.99
3	Photo Frames	4099	340.71
4	Bar Tools	4104	551.55
5	Bakeware	4122	551.27