

SQL PROJCT 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;
```

1. SELECT sum(SalesPrice) as TotalSalesRevenue
FROM NewTable

	TotalSalesRevenue
1	44365025.97

Execution finished without errors.
Result: 1 rows returned in 30ms
At line 1:
SELECT sum(SalesPrice) as TotalSalesRevenue
FROM NewTable

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

	ProductName	Orderqty	OrderNumber	SalesChannel
1	Accessories	7	SO78	Distributor
2	Bakeware	8	SO37	In-Store
3	Cocktail Glasses	3	SO59	Distributor
4	Computers	4	SO6	Distributor
5	Dining Furniture	4	SO3	In-Store
6	Dinnerware	2	SO7	In-Store
7	Mirrors	5	SO23	Distributor
8	Ornaments	2	SO40	In-Store
9	Photo Frames	2	SO29	Distributor
10	Serveware	5	SO24	Distributor
11	Stemware	10	SO82	Distributor
12	Wine Storage	3	SO19	In-Store

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

	ProductName	sum(Orderqty)	sum(SalesPrice)	SalesTeam
1	Vanities	4648	1856248.05	Nicholas Cunningham

Execution finished without errors.
Result: 1 rows returned in 144ms
At line 1:
SELECT ProductName, sum(Orderqty), sum(SalesPrice), SalesTeam
FROM NewTable

4. /*SELECT avg(Orderqty) as average
FROM NewTable*/

```
SELECT *
FROM NewTable
WHERE Orderqty > 5.5201;
```

	OrderNumber	SalesChannel	Salesteamindex	Orderqty	unitprice	unitcost	SalesPrice	CostPrice	Profit	SalesTez
1	SO1	Online	19	8	504.25	360.18	4034.0	2881.44	1152.56	Nicholas Cunn
2	SO4	Wholesale	9	9	330.81	236.3	2977.29	2126.7	850.59	Joshua Ryan
3	SO8	Online	21	8	273.99	195.71	2191.92	1565.68	626.24	Samuel Fowle
4	SO9	Wholesale	26	9	499.79	356.99	4498.11	3212.91	1285.2	Donald Reynol
5	SO11	Online	15	10	621.18	443.7	6211.8	4437.0	1774.8	Roger Alexanc
6	SO13	Wholesale	18	8	348.32	248.8	2786.56	1990.4	796.16	Shawn Wallac
7	SO16	Online	24	8	209.67	149.77	1677.36	1198.16	479.2	Roy Rice
8	SO18	Wholesale	10	9	173.69	124.06	1563.21	1116.54	446.67	Jonathan Haw
9	SO20	Distributor	10	6	387.17	276.55	2323.02	1659.3	663.72	Jonathan Haw
10	SO21	Online	21	8	544.19	388.71	4353.52	3109.68	1243.84	Samuel Fowle
11	SO26	Online	24	9	370.51	264.65	3334.59	2381.85	952.74	Roy Rice
12	SO27	Wholesale	4	6	586.31	418.79	3517.86	2512.74	1005.12	Chris Armstro
13	SO31	Wholesale	10	8	566.48	404.63	4531.84	3237.04	1294.8	Jonathan Haw
14	SO32	In-Store	4	10	285.54	203.95	2855.4	2039.5	815.9	Chris Armstro
15	SO35	In-Store	6	6	593.56	423.97	3561.36	2543.82	1017.54	Joshua Bennel
16	SO37	In-Store	13	8	551.27	393.77	4410.16	3150.16	1260.0	Todd Roberts

5. 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
4	Basketball	4405
5	Dining Furniture	4376
6	Cookware	4360
7	Dinnerware	4326
8	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

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

	state	OrderSold
1	Alabama	16837

7. SELECT *
FROM NewTable
WHERE OrderNumber = "SO471";

	OrderNumber	SalesChannel	Salesteamindex	Orderqty	unitprice	unitcost	SalesPrice	CostPrice	Profit	SalesTeam	Region	ProductCategory
1	SO471	Wholesale	6	3	179.01	127.87	537.03	383.61	153.42	Joshua Bennett	Northeast	Electronics

8. 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

9. 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

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

	ProductName	TotalQuantities
1	Vanities	4648
2	Candles	4446
3	Wine Storage	4409
4	Basketball	4405
5	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