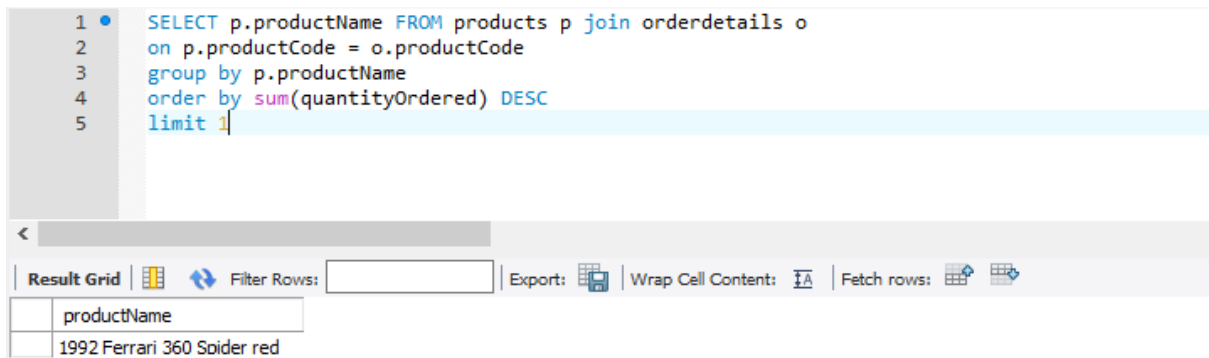


## แบบฝึกหัด

1. แสดงชื่อสินค้าที่ขายดีที่สุดโดยดูจากตาราง orderdetail

```
SELECT p.productName FROM products p join orderdetails o
on p.productCode = o.productCode
group by p.productName
order by sum(quantityOrdered) DESC
limit 1
```



The screenshot shows a SQL query editor with the following query:

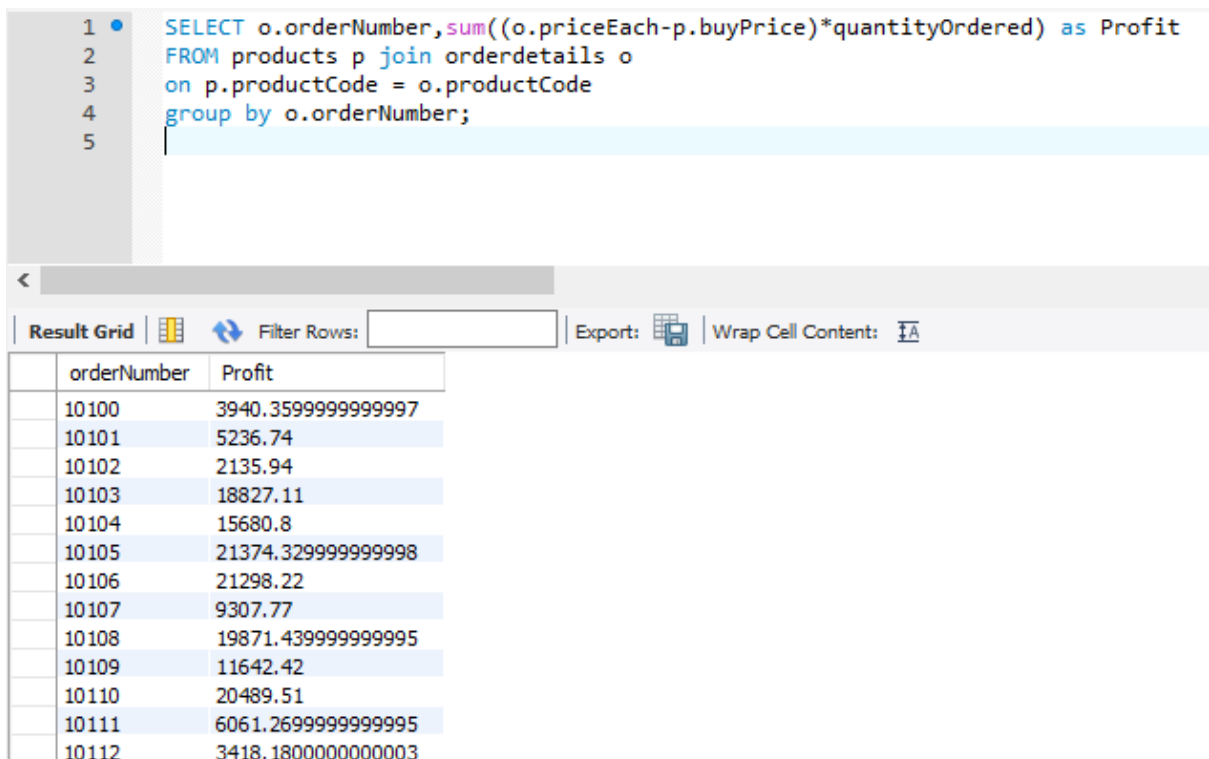
```
1 SELECT p.productName FROM products p join orderdetails o
2 on p.productCode = o.productCode
3 group by p.productName
4 order by sum(quantityOrdered) DESC
5 limit 1
```

Below the query editor is a toolbar with options: Result Grid, Filter Rows, Export, Wrap Cell Content, and Fetch rows. The result grid shows the following data:

productName
1992 Ferrari 360 Spider red

2. แสดงกำไร (ราคาขาย - ราคาต้นทุน)\*จำนวนที่ขายได้ของแต่ละ orderNumber

```
SELECT o.orderNumber,sum((o.priceEach-p.buyPrice)*quantityOrdered) as Profit
FROM products p join orderdetails o
on p.productCode = o.productCode
group by o.orderNumber
```



The screenshot shows a SQL query editor with the following query:

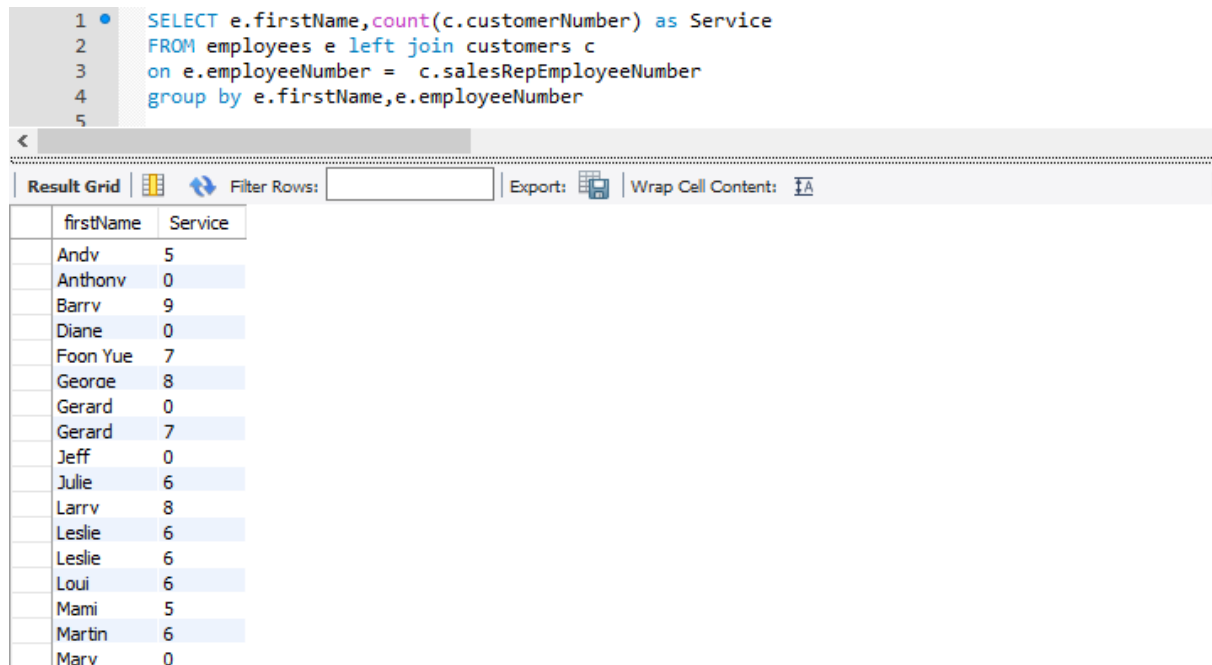
```
1 SELECT o.orderNumber,sum((o.priceEach-p.buyPrice)*quantityOrdered) as Profit
2 FROM products p join orderdetails o
3 on p.productCode = o.productCode
4 group by o.orderNumber;
```

Below the query editor is a toolbar with options: Result Grid, Filter Rows, Export, Wrap Cell Content, and Fetch rows. The result grid shows the following data:

orderNumber	Profit
10100	3940.3599999999997
10101	5236.74
10102	2135.94
10103	18827.11
10104	15680.8
10105	21374.329999999998
10106	21298.22
10107	9307.77
10108	19871.439999999995
10109	11642.42
10110	20489.51
10111	6061.2699999999995
10112	3418.1800000000003

3. แสดงชื่อพนักงานและจำนวนลูกค้าที่พนักงานแต่ละคนดูแล

```
SELECT e.firstName,count(c.customerNumber) as Service
FROM employees e left join customers c
on e.employeeNumber = c.salesRepEmployeeNumber
group by e.firstName,e.employeeNumber
```



The screenshot shows a SQL query editor with the following query:

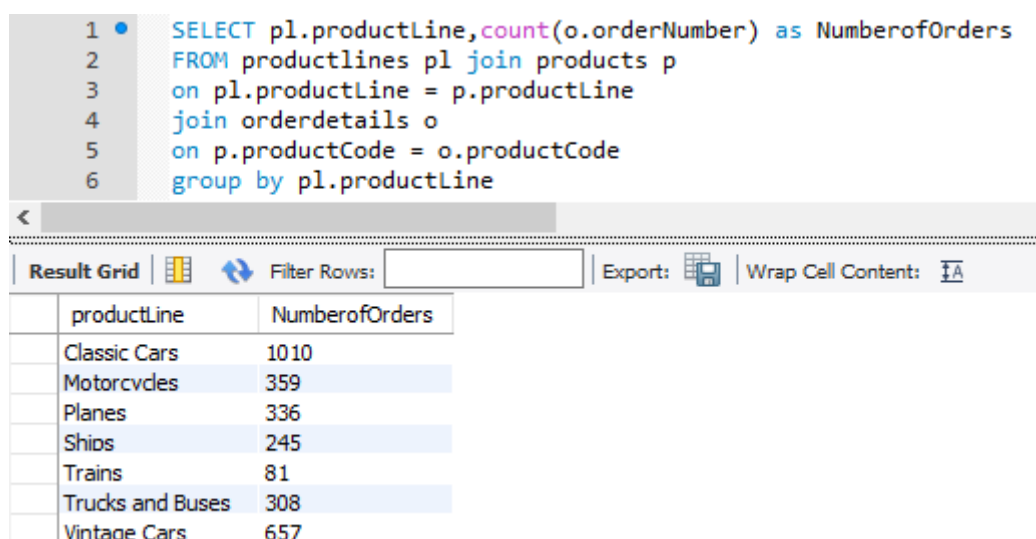
```
1 SELECT e.firstName,count(c.customerNumber) as Service
2 FROM employees e left join customers c
3 on e.employeeNumber = c.salesRepEmployeeNumber
4 group by e.firstName,e.employeeNumber
5
```

Below the query editor is a table titled "Result Grid" with the following data:

firstName	Service
Andv	5
Anthony	0
Barrv	9
Diane	0
Foon Yue	7
George	8
Gerard	0
Gerard	7
Jeff	0
Julie	6
Larry	8
Leslie	6
Leslie	6
Loui	6
Mami	5
Martin	6
Marv	0

4. จงแสดง productLine และจำนวน order ในแต่ละ productLine

```
SELECT pl.productLine,count(o.orderNumber)
FROM productlines pl join products p
on pl.productLine = p.productLine
join orderdetails o
on p.productCode = o.productCode
group by pl.productLine
```



The screenshot shows a SQL query editor with the following query:

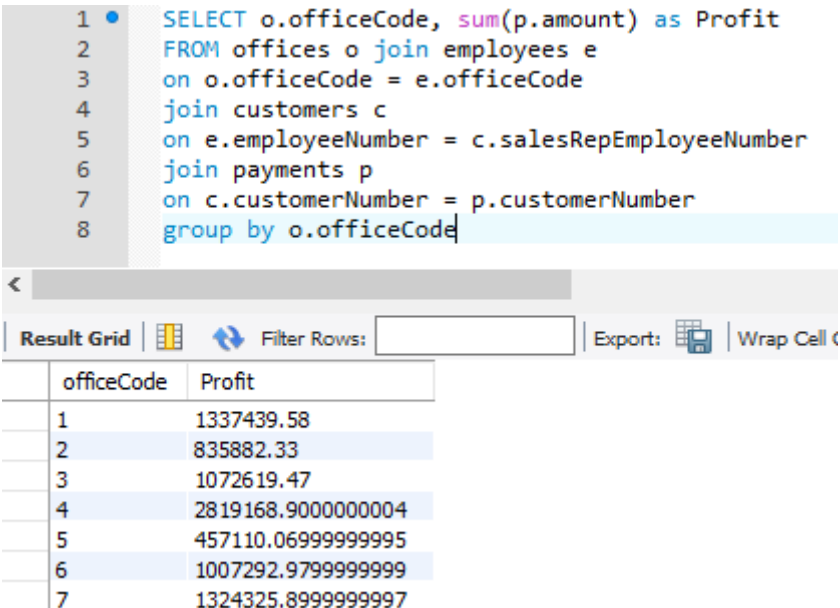
```
1 SELECT pl.productLine,count(o.orderNumber) as NumberofOrders
2 FROM productlines pl join products p
3 on pl.productLine = p.productLine
4 join orderdetails o
5 on p.productCode = o.productCode
6 group by pl.productLine
```

Below the query editor is a table titled "Result Grid" with the following data:

productLine	NumberofOrders
Classic Cars	1010
Motorcycles	359
Planes	336
Ships	245
Trains	81
Trucks and Buses	308
Vintage Cars	657

5. จงแสดงรายได้ของแต่ละ office โดยดูจากตาราง payment

```
SELECT o.officeCode, sum(p.amount) as Profit
FROM offices o join employees e
on o.officeCode = e.officeCode
join customers c
on e.employeeNumber = c.salesRepEmployeeNumber
join payments p
on c.customerNumber = p.customerNumber
group by o.officeCode
```



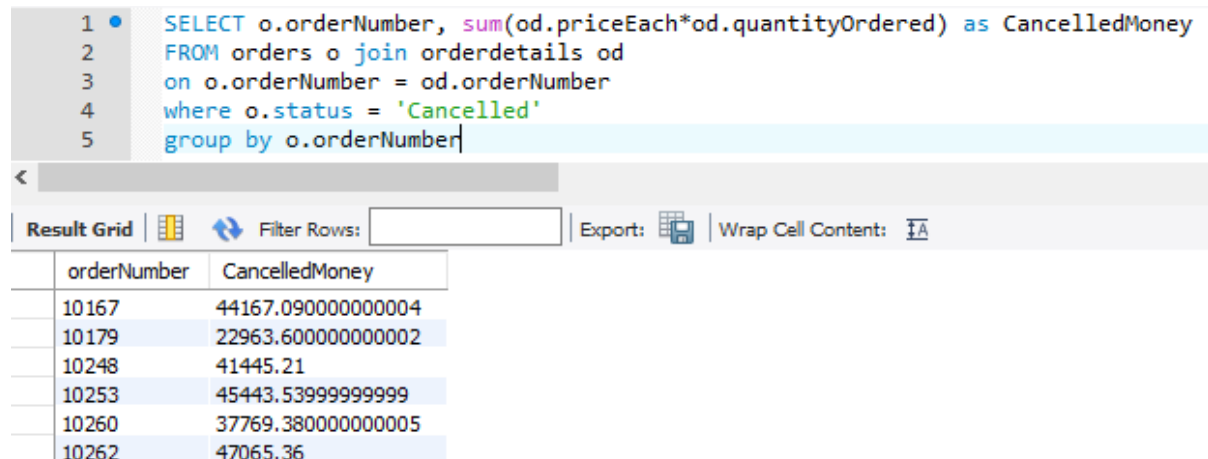
```
1 SELECT o.officeCode, sum(p.amount) as Profit
2 FROM offices o join employees e
3 on o.officeCode = e.officeCode
4 join customers c
5 on e.employeeNumber = c.salesRepEmployeeNumber
6 join payments p
7 on c.customerNumber = p.customerNumber
8 group by o.officeCode
```

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

	officeCode	Profit
1	1	1337439.58
2	2	835882.33
3	3	1072619.47
4	4	2819168.9000000004
5	5	457110.06999999995
6	6	1007292.9799999999
7	7	1324325.8999999997

6. จงแสดง orderNumber และจำนวนเงินที่ถูกยกเลิกของแต่ละ order ดูจากตาราง orderdetail

```
SELECT o.orderNumber, sum(od.priceEach*od.quantityOrdered) as CancelledMoney
FROM orders o join orderdetails od
on o.orderNumber = od.orderNumber
where o.status = 'Cancelled'
group by o.orderNumber
```

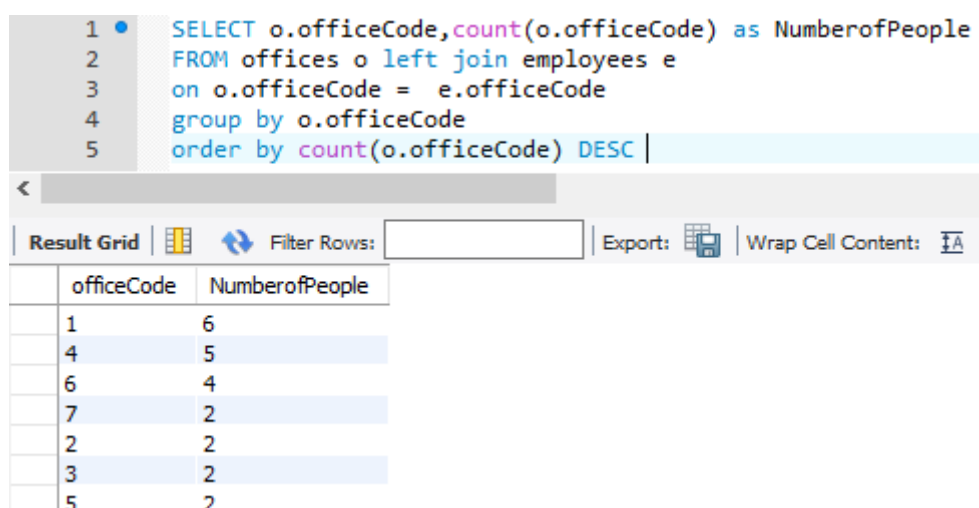


```
1 • SELECT o.orderNumber, sum(od.priceEach*od.quantityOrdered) as CancelledMoney
2 FROM orders o join orderdetails od
3 on o.orderNumber = od.orderNumber
4 where o.status = 'Cancelled'
5 group by o.orderNumber
```

orderNumber	CancelledMoney
10167	44167.090000000004
10179	22963.600000000002
10248	41445.21
10253	45443.539999999999
10260	37769.380000000005
10262	47065.36

7. จงแสดง officeCode และจำนวนคนในแต่ละ office โดยจัดเรียงจาก office

```
SELECT o.officeCode, count(o.officeCode) as NumberofPeople
FROM offices o left join employees e
on o.officeCode = e.officeCode
group by o.officeCode
order by count(o.officeCode) DESC
```



```
1 • SELECT o.officeCode, count(o.officeCode) as NumberofPeople
2 FROM offices o left join employees e
3 on o.officeCode = e.officeCode
4 group by o.officeCode
5 order by count(o.officeCode) DESC
```

officeCode	NumberofPeople
1	6
4	5
6	4
7	2
2	2
3	2
5	2

8. จงแสดงชื่อสินค้าและจำนวนเงินของสินค้าที่ขายดีที่สุด

```
SELECT p.productName, sum(od.priceEach*od.quantityOrdered ) as BestSellerPrice
FROM products p join orderdetails od
on p.productCode = od.productCode
group by p.productName
order by BestSellerPrice DESC
limit 1
```

```
1 • SELECT p.productName, sum(od.priceEach*od.quantityOrdered ) as BestSellerAmount
2 FROM products p join orderdetails od
3 on p.productCode = od.productCode
4 group by p.productName
5 order by BestSellerAmount DESC
6 limit 1
```

productName	BestSellerAmount
1992 Ferrari 360 Spider red	276839.98

9. จงแสดงชื่อสินค้าและจำนวนเงินของสินค้าที่ขายดีที่สุด 5 อันดับแรก

```
SELECT p.productName, sum(od.priceEach*od.quantityOrdered ) as BestSellerPrice
FROM products p join orderdetails od
on p.productCode = od.productCode
group by p.productName
order by BestSellerPrice DESC
limit 5
```




```
1 • SELECT p.productName, sum(od.priceEach*od.quantityOrdered ) as BestSellerPrice
2 FROM products p join orderdetails od
3 on p.productCode = od.productCode
4 group by p.productName
5 order by BestSellerPrice DESC
6 limit 5
```

productName	BestSellerPrice
1992 Ferrari 360 Spider red	276839.98
2001 Ferrari Enzo	190755.86
1952 Alpine Renault 1300	190017.95999999996
2003 Harley-Davidson Eagle Drag Bike	170685.99999999997
1968 Ford Mustang	161531.47999999992

10. จงแสดงชื่อลูกค้าที่ซื้อสินค้าเป็นจำนวนเงินรวมมากที่สุด

```
SELECT c.customerName FROM customers c join orders o
on c.customerNumber = o.customerNumber
join orderdetails od
on od.orderNumber = o.orderNumber
group by c.customerName
order by sum(od.priceEach*od.quantityOrdered) DESC
limit 1
```

```
1 • SELECT c.customerName FROM customers c join orders o
2   on c.customerNumber = o.customerNumber
3   join orderdetails od
4   on od.orderNumber = o.orderNumber
5   group by c.customerName
6   order by sum(od.priceEach*od.quantityOrdered) DESC
7   limit 1
```

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

	customerName
	Euro+ Shopping Channel