

# 课堂作业

#4

```
SELECT SupplierNO,CategoryNO,SUM(SaleBill.Number*SalePrice)
FROM SaleBill JOIN Goods ON SaleBill.GoodsNO=Goods.GoodsNO
GROUP BY SupplierNO,CategoryNO
```

#5

#女生

```
SELECT CategoryNO,SUM(SaleBill.Number)
FROM SaleBill JOIN Student ON SaleBill.SNO=Student.SNO
      JOIN Goods ON SaleBill.GoodsNO=Goods.GoodsNO
WHERE Ssex='女'
GROUP BY CategoryNO
```

#男生

```
SELECT CategoryNO,SUM(SaleBill.Number)
FROM SaleBill JOIN Student ON SaleBill.SNO=Student.SNO
      JOIN Goods ON SaleBill.GoodsNO=Goods.GoodsNO
WHERE Ssex='男'
GROUP BY CategoryNO
```

#6

```
SELECT GoodsNO,SupplierNO,CategoryNO,GoodsName,InPrice,salePrice,Number,ProductTime
FROM Goods JOIN(
    SELECT SaleBill.GoodsNO AS NO,SUM(SaleBill.Number*SalePrice)AS BuyAmount
    FROM SaleBill JOIN Student ON SaleBill.SNO=Student.SNO
      JOIN Goods ON SaleBill.GoodsNO=Goods.GoodsNO
    WHERE Student.Ssex='男'
    GROUP BY GoodsNO
)AS temp
ON Good.GoodsNO=temp.GoodsNO
ORDER BY temp.BuyAmount DESC
TOP 3
```

#7

```
SELECT GoodsName,Number
FROM Goods
ORDER BY SalePrice DESC
TOP 3
```

#8

```
SELECT GoodsName,Number
FROM Goods JOIN(
    SELECT GoodsNO,((SalePrice-InPrice)/InPrice)AS Profit
    FROM Goods
)AS temp ON Goods.GoodsNO=temp.GoodsNO
ORDER BY temp.Profit DESC
TOP 3
```

#9

```
SELECT SNO,SName,BirthYear,Ssex,college,Major,Weixin
FROM Student JOIN(
    SELECT SaleBill.SNO AS SNO,SUM(SaleBill.Number)AS BuyNum
    FROM SaleBill JOIN Student ON SaleBill.SNO=Student.SNO
        JOIN Goods ON SaleBill.GoodsNO=Goods.GoodsNO
    WHERE Goods.CategoryNO='CN001'
    GROUP BY SaleBill.SNO
)AS temp ON Student.SNO=temp.SNO
ORDER BY BuyNum DESC
```

#10

```
SELECT SNO,SName,BirthYear,Ssex,college,Major,Weixin
FROM Student
WHERE SNO NOT IN(
    SELECT SaleBill.SNO AS SNO
    FROM SaleBill JOIN Student ON SaleBill.SNO=Student.SNO
        JOIN Goods ON SaleBill.GoodsNO=Goods.GoodsNO
    WHERE Goods.CategoryNO='CN001'
    GROUP BY SaleBill.SNO
)
```

#11

```
CREATE
    UNIQUE NONCLUSTERED
    INDEX SupplierIndex
    ON Supplier SupplierName
```

#12

```
SELECT SNO,SName,BirthYear,Ssex,college,Major,Weixin
FROM Student
WHERE SNO IN(
    SELECT SNO
    FROM SaleBill
    WHERE GoodsNO IN ['GN0001','GN0002']
)
```

#13

```
CREATE VIEW Expire AS
SELECT GoodsNO,SupplierNO,CategoryNO,GoodsName,InPrice,salePrice,Number,ProductTime
FROM Goods
WHERE TO_DAYS(NOW()) - TO_DAYS(ProductTime)>QGPeriod*30-30
      AND TO_DAYS(NOW()) - TO_DAYS(ProductTime)<QGPeriod*30
```

#14

```
UPDATE Expire
SET SalePrice=0.8*SalePrice
```

#15

```
SELECT college,SaleAmount
INTO CollegeSaleAmount
FROM(
    SELECT college,SUM(Goods.SalePrice*SaleBill.Number)AS SaleAmount
    FROM SaleBill JOIN Student ON SaleBill.SNO=Student.SNO
                JOIN Goods ON SaleBill.GoodsNO=Goods.GoodsNO
    GROUP BY college)
```

#16

```
SELECT college,Major,SUM(Goods.SalePrice*SaleBill.Number)AS SaleAmount
FROM SaleBill JOIN Student ON SaleBill.SNO=Student.SNO
                JOIN Goods ON SaleBill.GoodsNO=Goods.GoodsNO
GROUP BY college,Major
ORDER BY SaleAmount DESC
TOP 1
```

#17

```
DELETE FROM Supplier
WHERE SupplierNO IN
(
    SELECT Goods.SupplierNO
    FROM(
        SELECT Goods.SupplierNO,SUM(Goods.SalePrice*SaleBill.Number)AS SaleAmount
        FROM SaleBill JOIN Student ON SaleBill.SNO=Student.SNO
        JOIN Goods ON SaleBill.GoodsNO=Goods.GoodsNO
        GROUP BY Goods.SupplierNO
        ORDER BY SaleAmount ASC
        TOP 2
    )
)
```

#18

```
UPDATE Goods
SET SalePrice=0.95*SalePrice
WHERE (SalePirce-InPrice)/InPrice>0.3
```