

## 1041 資料庫管理系統-期中上機考(二)

題目一：

列出資管系上大學部在學的各月份出生男女生人數，並由多到少排序

```
select substring(birthday,3,2),sex, count(*) from student
where substring(studentid,len(studentid)-4,2) = '13'
and status = '0'
and class = 'B'
GROUP BY substring(birthday,3,2), sex
ORDER BY sex, count(*) desc
```

題目二：

請列出管院在學學生登記網卡數目超過四張的姓名及張數，並由多到少排序

```
select name,COUNT(*) as total
from student,maclist
where status='0'
and substring(studentid,len(studentid)-5,1)=2
and student.studentid=maclist.uid
group by name
HAVING COUNT(*)>3
order by COUNT(*) desc
```

題目三：

算出各學院在 102 學年度體檢的學生 BMI，並以過輕、正常、過重統計人數，並依學院及指標排序

(需求欄位：學院、指標(過重、正常、過輕)、人數)

(BMI = 體重(kg) / 身高(m)<sup>2</sup>；過輕<18.5，18.5<=正常<24，24<=過重)

```
select col.name as '學院', BMI.bmi as 'BMI量表', BMI.num as '人數' from
(select * from college) as col,
(select substring(studentid,len(studentid)-5,1) as id, case
when round(weight/((height/100)*(height/100)),1) <18.5 then '過輕'
when (round(weight/((height/100)*(height/100)),1) >= 18.5
and round(weight/((height/100)*(height/100)),1) <24) then '正常' else '
過重' end as bmi, count(*) as num
```

```
from healthexam
where ((height/100)*(height/100))>0 and year = 102
group by substring(studentid,len(studentid)-5,1), (case when
round(weight/((height/100)*(height/100)),1) <18.5 then '過輕'
when ( round(weight/((height/100)*(height/100)),1) >= 18.5
and round(weight/((height/100)*(height/100)),1) <24) then '正常' else '
過重' end) as BMI
where col.colid = BMI.id
order by col.name, BMI.bmi
```