```
#2
mydbcon = mysql.connector.connect(host="localhost", user="root", passwd="@jasonchien1996", database="DB_class")
mycursor = mydbcon.cursor()
mycursor.execute("select * from students where 學號='r09922146'")
print(mycursor.fetchone())
```

Result:

```
(base) C:\Users\Jason\Desktop>python hw4.py
(70, '校内生\xa0', '資工系碩士班', 'r09922146', '簡辰哲', '一年級\xa0')
```

3

#3
mycursor.execute("select * from students where 系所='資工系碩士班' and 年級='一年級\xa0'")
print(mycursor.fetchall())

Result:

(base) C:\Users\Jason\Desktop>python hw4.py
[(60, '校内生\xa0', '資工系碩士班', 'r09922003', '吳政緯', '一年級\xa0'), (61, '校内生\xa0', '資工系碩士班', 'r09922009', '林詩芩', '一年級\xa0'), (62, '校内生\xa0', '資工系碩士班', 'r09922056', '王柏元', '一年級\xa0'), (63, '校内生\xa0', '資工系碩士班', 'r09922056', '王柏元', '一年級\xa0'), (63, '校内生\xa0', '資工系碩士班', 'r09922080', '曾尹均', '一年級\xa0'), (65, '校内生\xa0', '資工系碩士班', 'r09922080', '曾尹均', '一年級\xa0'), (65, '校内生\xa0', '資工系碩士班', 'r09922090', '王文依', '一年級\xa0'), (67, '校内生\xa0', '資工系碩士班', 'r09922090', '王文依', '一年級\xa0'), (67, '校内生\xa0', '資工系碩士班', 'r09922090', '王文依', '一年級\xa0'), (67, '校内生\xa0', '資工系碩士班', 'r09922111', '鍾育昌', '一年級\xa0'), (69, '校内生\xa0', '資工系碩士班', 'r09922116', '即聖約', '一年級\xa0'), (70, '校内生\xa0', '資工系碩士班', 'r09922146', '智尼哲', '一年級\xa0'), (71, '校内生\xa0', '資工系碩士班', 'r09922155', '閻丞珮', '一年級\xa0'), (72, '校内生\xa0', '資工系碩士班', 'r09922156', '李昭妤', '一年級\xa0')]

4

#4

mycursor.execute("select count(學號) from students;") print(mycursor.fetchone()[0])

Result:

```
(base) C:\Users\Jason\Desktop>python hw4.py
85
```

5

```
#5
select = "SELECT * FROM students where 學號 = %(學號)s"
mycursor.execute(select, { '學號': 'r09921000' })
print(mycursor.fetchone())
```

Result:

```
(base) C:\Users\Jason\Desktop>python hw4.py
(0, '旁聽生', '電機系碩士班', 'r09921000', '王大天', '一年級\xa0')
```

```
#6
mycursor.execute("update students set 身份='特優生' where 學號='r09922146'")
mycursor.execute("select * from students where 學號='r09922146'")
print(mycursor.fetchone())
```

Result:

```
(base) C:\Users\Jason\Desktop>python hw4.py
(70, '特優生', '資工系碩士班', 'r09922146', '簡辰哲', '一年級\xa0')
```

7.

8

```
mycursor = mydbcon.cursor(prepared=True)
select = "SELECT * FROM students where 學號 = %s"
mycursor.execute(select, ('b09900201',))
print(mycursor.fetchone())
mycursor.execute(select, ('b06900332',))
print(mycursor.fetchone())
mycursor.execute(select, ('b06502055',))
print(mycursor.fetchone())
```

Result:

```
(base) C:\Users\Jason\Desktop>python hw4.py
(None, '旁聽生', '歷史系', 'b09900201', '小花', '一年級')
(None, '校内生', '歷史系', 'b06900332', '小草', '四年級')
(None, '校内生', '機械系', 'b06502055', '小天', '四年級')
```