

## 1. 按查詢鍵, 查詢 ksu\_std\_table 中, 各系的學生人數.

**ksu select operation**

按查詢鍵, 查詢 ksu\_std\_table 中, 各系的學生人數.



ksu\_std\_table 學生於各系人數顯示如下:

系別	學生人數
CS	2
IE	2
IM	2

records found!

**ksu\_select.php**

```
echo "ksu_std_table 查詢結果,顯示如下:";
$result = mysqli_query($conn,"select ksu_std_department,
                                count(*)
                                FROM ksu_std_table
                                group by ksu_std_department");
```

```
echo "<table border='1'>
<tr>
    <th> 系別 </th>    <th>學生人數 </th>
</tr>";
```

```
while($row = mysqli_fetch_array($result))
```

```
{
    echo "<tr>";
    echo "<td>" . $row['ksu_std_department'] . "</td>";
    echo "<td>" . $row['count(*)'] . "</td>";
    echo "</tr>";
}
```

```
echo "</table>";
```

```
echo "records found!";
```

```
?>
```

```
<form enctype="multipart/form-data" method="post" action="ksu_select.html">
<input type="submit" name="sub" value="返回"/>
</form>
```

## 2.請按下面方法建立商業用的備份檔案

step 1. 匯入 bk\_ksu\_std\_table.sql

step 2. 使用一 INSERT SQL 將 ksu\_std\_table 中屬於 ksu\_std\_department 中為 IE 或是 ksu\_std\_grade 低於 50 以下(註:不含 50)的學生, 備份(註:匯入)到 bk\_ksu\_std\_table 表格中.  
(註:兩表中資料欄位對應, 且欄位屬性一致)

查詢結果應為如下:

bk_ksu_std_id	bk_ksu_std_name	bk_ksu_std_age	bk_ksu_std_department	bk_ksu_std_signin	bk_ksu_std_grade
IE01	John Sieg	33	IE	2019-11-12	100
IE02	Mike Fire	32	IE	2018-12-11	77
IM01	WuBer Eat	22	IM	2019-11-12	33
IM02	Foot Penny	27	CS	2019-10-10	44

ANS :

```
INSERT INTO bk_ksu_std_table
(bk_ksu_std_id, bk_ksu_std_name, bk_ksu_std_age,
bk_ksu_std_department, bk_ksu_std_signin, bk_ksu_std_grade)
SELECT
ksu_std_id, ksu_std_name, ksu_std_age,
ksu_std_department, ksu_std_signin, ksu_std_grade
FROM ksu_std_table
WHERE
ksu_std_department = "IE" OR ksu_std_grade < 50;
```

3.ksu\_std\_table 資料表中, 目前資料如下.

ksu_std_id	ksu_std_name ▼ 1	ksu_std_age	ksu_std_department	ksu_std_signin	ksu_std_grade
IM01	WuBer Eat	22	IM	2019-11-12	33
IE02	Mike Fire	32	IE	2019-12-11	77
IE03	Mary Wee	34	IM	2019-12-02	80
IE01	John Sieg	33	IE	2019-11-12	100
IM05	John Sieg	24	CS	2019-12-16	55
D01	John Sieg	22	CS	2019-12-05	100
D02	John Sieg	44	IE	2019-12-04	99
IM02	Foot Penny	27	CS	2019-10-10	44

修改 html+php 程式碼, 按查詢鍵, 查詢 ksu\_std\_table 中, 各系的學生人數. 查詢各系的學生人數大於 2 人, 並且全系每位學生的成績(ksu\_std\_grade)皆及格.

相關執行結果如下:

ksu select operation

修改 html+php 程式碼, 按查詢鍵, 查詢 ksu\_std\_table 中, 各系的學生人數.  
查詢各系的學生人數大於 2 人, 並且全系每位學生的成績(ksu\_std\_grade)皆及格

查詢



ksu\_std\_table 查詢結果, 顯示如下:

系別	學生人數
IE	3

records found!

返回

ksu\_select.php

```
echo "ksu_std_table 查詢結果, 顯示如下:";
$result = mysqli_query($conn, "select ksu_std_department, count(1)
FROM ksu_std_table
where ksu_std_grade >= 59
group by ksu_std_department
HAVING count(1) > 2 ");

echo "<table border='1'>
<tr>
  <th> 系別 </th>  <th>學生人數 </th>
</tr>";

while($row = mysqli_fetch_array($result))
{
  echo "<tr>";
  echo "<td>" . $row['ksu_std_department'] . "</td>";
  echo "<td>" . $row['count(1)'] . " </td>";
  echo "</tr>";
}
echo "</table>";
echo "records found!";
?>
<form enctype="multipart/form-data" method="post" action="ksu_select.html">
<input type="submit" name="sub" value="返回"/>
</form>
```

#### 4.請按下面方法建立商業用的備份檔案.

使用一 INSERT SQL 將 ksu\_std\_table 與 student\_detail 表格中, 屬於 此兩表格中的欄位: ksu\_std\_name 與 std\_name 中 相同的名字匯入 bk\_std\_names\_table 中的 std\_name 欄位內。注意, 名字匯入後, 不可重複, 顯示如下。

為 IE 或是 ksu\_std\_grade 低於 50 以下(註:不含 50)的學生, 備份(註:匯入)到 bk\_ksu\_std\_table 表格中。(註:兩表中資料欄位對應, 且欄位屬性一致)

查詢結果應為如下:

**std\_name**

John Sieg

Mike Fire

Wuber Eat

ANS :

```
INSERT INTO bk_std_names_table
(std_name)
SELECT DISTINCT (student_detail.std_name)
FROM student_detail, ksu_std_table
WHERE
student_detail.std_name = ksu_std_table.ksu_std_name
```

#### 5. Update SQL

如,

```
UPDATE Store_Information
SET Sales = 500
WHERE Store_Name = 'Los Angeles'
AND Txn_Date = 'Jan-08-1999';
```

#### 6. Delete SQL

如,

```
DELETE FROM Store_Information
WHERE Store_Name = 'Los Angeles';
```

## SQL 資料庫實務 期末模擬考題

1. 按查詢鍵, 查詢 `ksu_std_table` 中, 各指導老師與指導學生人數.

### ksu select operation

修改 html+php 程式碼, 按查詢鍵, 查詢 `ksu_std_table` 中, 各指導老師與指導學生人數.



`ksu_std_table` 查詢結果, 顯示如下:

指導老師姓名	指導學生人數
John Wick	5
Mary Win	2
Stephine Li	1

records found!

### ksu\_select.php

```
echo "ksu_std_table 查詢結果, 顯示如下:";
$result = mysqli_query($conn, "select advisor_detail.advisor_name,
                                count(*)
                                FROM student_detail, advisor_detail
                                where student_detail.std_advisor = advisor_detail.std_advisor
                                group by student_detail.std_advisor");

echo "<table border='1'>";
echo "<tr>";
echo "<th> 指導老師姓名 </th> <th>指導學生人數 </th>";
echo "</tr>";

while($row = mysqli_fetch_array($result))
{
    echo "<tr>";
    echo "<td>" . $row['advisor_name'] . "</td>";
    echo "<td>" . $row['count(*)'] . "</td>";
    echo "</tr>";
}
echo "</table>";
echo "records found!";

?>
<form enctype="multipart/form-data" method="post" action="ksu_select.html">
<input type="submit" name="sub" value="返回"/>
</form>
```