University Database Project
CPSC 332
Section 1 Fall 2018
Shawn X Wang

By:

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Interfaces:

Sample Runs:

Professor SSN:

11111111

Submit

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ecs.fullerton.edu/~cs332a27/prof ✕ +

← → C ⓘ Not secure | ecs.fullerton.edu/~cs332a27/professor.php ☆ ⟛ 🔣 🅰 ▢ 🧑 ⋮

Connected successfully

Title: Chief
Classroom: E 100
Meeting_days: MW
Start_time: 00:00:07
End_time:00:00:10
Title: Chief
Classroom: E 200
Meeting_days: TTH
Start_time: 00:00:07
End_time:00:00:10

Courses:

1

Section:

1

Submit

Connected successfully

Grade: A
Count: 1
Grade: B
Count: 1
Grade: C
Count: 1

Student Courses:

1

Submit

Connected successfully

Section: 1
Classroom: E 100
Meeting days: MW
Start time: 00:00:07
End time: 00:00:10
Number enrolled: 3
Section: 2
Classroom: E 200
Meeting days: TTH
Start time: 00:00:07
End time: 00:00:10
Number enrolled: 3

Student CWID:

```
1
```

Submit

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ecs.fullerton.edu/~cs332a27/stud ✕   +

← → C ⓘ Not secure | ecs.fullerton.edu/~cs332a27/student_records.php ☆ ⭐ :

Connected successfully
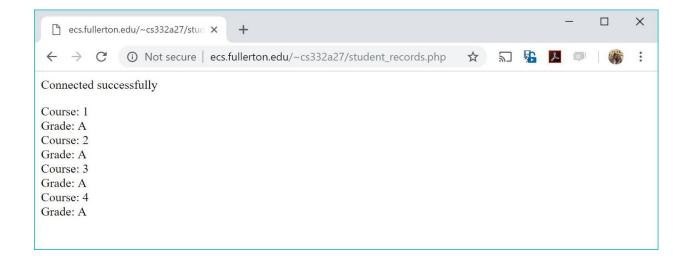
Course: 1
Grade: A
Course: 2
Grade: A
Course: 3
Grade: A
Course: 4
Grade: A

DLL:

```
CREATE TABLE `Course` (
  `C_num` int(11) NOT NULL,
  `Title` varchar(45) DEFAULT NULL,
  `Textbook` varchar(45) DEFAULT NULL,
  `Units` int(11) DEFAULT NULL,
  `Depart_num` int(11) DEFAULT NULL,
  PRIMARY KEY (`C_num`),
  KEY `depart_num_idx` (`Depart_num`),
  CONSTRAINT `depart_num` FOREIGN KEY (`Depart_num`) REFERENCES
    `Department` (`D_num`) ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=latin1

CREATE TABLE `Department` (
  `D_num` int(11) NOT NULL,
  `Name` varchar(45) DEFAULT NULL,
  `Phone` int(11) DEFAULT NULL,
  `Office_location` varchar(45) DEFAULT NULL,
  `Chair_SSN` int(11) DEFAULT NULL,
  PRIMARY KEY (`D_num`),
  KEY `SSN_idx` (`Chair_SSN`),
  CONSTRAINT `Prof_SSN` FOREIGN KEY (`Chair_SSN`) REFERENCES
    `Professor` (`SSN`) ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=latin1

CREATE TABLE `Enrollment` (
  `Student` int(11) NOT NULL,
  `Course` int(11) NOT NULL,
  `Section` int(11) NOT NULL,
  `Grade` varchar(45) DEFAULT NULL,
  PRIMARY KEY (`Student`,`Course`,`Section`),
  KEY `section_idx` (`Course`,`Section`),
  CONSTRAINT `student` FOREIGN KEY (`Student`) REFERENCES
    `Student` (`CWID`) ON DELETE CASCADE ON UPDATE CASCADE,
  CONSTRAINT `section_num1` FOREIGN KEY (`Course`, `Section`)
```

REFERENCES
    `Section` (`C_num`, `Sec_num`) ON DELETE CASCADE ON UPDATE
CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=latin1

CREATE TABLE `Minor` (
  `Student` int(11) NOT NULL DEFAULT '0',
  `Department` int(11) NOT NULL DEFAULT '0',
  PRIMARY KEY (`Student`,`Department`),
  KEY `Department_no_idx` (`Department`),
  CONSTRAINT `Student_id` FOREIGN KEY (`Student`) REFERENCES
    `Student` (`CWID`) ON DELETE CASCADE ON UPDATE CASCADE,
  CONSTRAINT `Department_no` FOREIGN KEY (`Department`)
REFERENCES
    `Department` (`D_num`) ON DELETE CASCADE ON UPDATE
CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=latin1

CREATE TABLE `Prerequisite` (
  `Course_no` int(11) NOT NULL,
  `Prereq_no` int(11) NOT NULL,
  PRIMARY KEY (`Prereq_no`,`Course_no`),
  KEY `course_idx` (`Course_no`),
  CONSTRAINT `course1` FOREIGN KEY (`Course_no`) REFERENCES
    `Course` (`C_num`) ON DELETE CASCADE ON UPDATE CASCADE,
  CONSTRAINT `prereq1` FOREIGN KEY (`Prereq_no`) REFERENCES
    `Course` (`C_num`) ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=latin1

CREATE TABLE `Prof_degrees` (
  `Prof_SSN` int(11) NOT NULL DEFAULT '0',
  `Degree` varchar(45) NOT NULL DEFAULT '0',
  PRIMARY KEY (`Prof_SSN`,`Degree`),
  CONSTRAINT `SSN` FOREIGN KEY (`Prof_SSN`) REFERENCES
    `Professor` (`SSN`) ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=latin1

CREATE TABLE `Professor` (
  `SSN` int(11) NOT NULL,

```sql
  `Name` varchar(45) DEFAULT NULL,
  `Street` varchar(45) DEFAULT NULL,
  `City` varchar(45) DEFAULT NULL,
  `State` varchar(45) DEFAULT NULL,
  `Zip` int(11) DEFAULT NULL,
  `Area_code` int(11) DEFAULT NULL,
  `Phone_number` int(11) DEFAULT NULL,
  `Sex` varchar(45) DEFAULT NULL,
  `Title` varchar(45) DEFAULT NULL,
  `Salary` int(11) DEFAULT NULL,
  PRIMARY KEY (`SSN`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1

CREATE TABLE `Section` (
  `C_num` int(11) NOT NULL,
  `Sec_num` int(11) NOT NULL,
  `Classroom` varchar(45) DEFAULT NULL,
  `Meeting_days` varchar(45) DEFAULT NULL,
  `Start_time` time DEFAULT NULL,
  `End_time` time DEFAULT NULL,
  `Num_of_seats` int(11) DEFAULT NULL,
  `Instructor` int(11) DEFAULT NULL,
  PRIMARY KEY (`C_num`,`Sec_num`),
  KEY `Instructor_SSN_idx` (`Instructor`),
  CONSTRAINT `Instructor_SSN` FOREIGN KEY (`Instructor`)
REFERENCES
    `Professor` (`SSN`) ON DELETE CASCADE ON UPDATE CASCADE,
  CONSTRAINT `Course` FOREIGN KEY (`C_num`) REFERENCES
    `Course` (`C_num`) ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=latin1

CREATE TABLE `Student` (
  `CWID` int(11) NOT NULL,
  `Fname` varchar(45) DEFAULT NULL,
  `Lname` varchar(45) DEFAULT NULL,
  `Address` mediumtext,
  `Phone` int(11) DEFAULT NULL,
  `Major_D_num` int(11) DEFAULT NULL,
  PRIMARY KEY (`CWID`),
```

```
  KEY `major_num_idx` (`Major_D_num`),
  CONSTRAINT `major_num` FOREIGN KEY (`Major_D_num`)
REFERENCES
   `Department` (`D_num`) ON DELETE CASCADE ON UPDATE
CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=latin1
```

INDEX.HTML

```html
<!DOCTYPE html>
<html>
<body>
<h1>Databases</h1>
<p>Hello.</p>

<form action="professor.php" method="POST" id='professorForm'>
  Professor SSN:<br>
  <input type="text" name="professorSSN" value="">
  <br><br>
  <input type="submit" value="Submit">
</form>
<br><br>

<form action="professor_b.php" method="POST" >
Courses:<br>
<input type="text" name="courses" value="">
<br>
<!DOCTYPE html>
<html>
<body>
<h1>Databases</h1>
<p>Hello.</p>

<form action="professor.php" method="POST" id='professorForm'>
  Professor SSN:<br>
  <input type="text" name="professorSSN" value="">
  <br><br>
  <input type="submit" value="Submit">
</form>
<br><br>

<form action="professor_b.php" method="POST" >
Courses:<br>
<input type="text" name="courses" value="">
<br>
 Section:<br>
<input type="text" name="sections" value="">
```

```html
<br><br>
<input type="submit" value="Submit">

</form>
<br><br>

<form action="student_course.php" method="POST" >

   Student Courses:<br>
  <input type="" name="sCourse" value="">
  <br><br>
  <input type="submit" value="Submit">

</form>
<br><br>

<form action="student_records.php" method="POST" >
Student CWID:<br>
  <input type="text" name="studentId" value="">
```

Professor.php

```php
<html>
<body>
<?php

$link = mysql_connect('mariadb', 'cs332a27', 'ofoofege');
if (!$link) {
die('Could not connect:'. mysql_error());
}
echo 'Connected successfully<p>';

mysql_select_db("cs332a27",$link);

$SSN = $_POST["professorSSN"];

$result = mysql_query(
     "
SELECT Title, Classroom, Meeting_days, Start_time, End_time
FROM Section, Professor
WHERE Instructor = SSN AND SSN = '$SSN'",$link);
```

```php
for($i=0; $i<mysql_numrows($result); $i++)
{
echo "Title: ", mysql_result($result,$i,"Title"), "<br>";
echo "Classroom: ", mysql_result($result,$i,"Classroom"), "<br>";
echo "Meeting_days: ", mysql_result($result,$i,"Meeting_days"), "<br>";
echo "Start_time: ", mysql_result($result,$i,"Start_time"), "<br>";
echo "End_time:", mysql_result($result,$i,"End_time"), "<br>";
}
mysql_close($link);
?>
</body>
</html>
```

Professor_b.php

```php
<html>
<body>
<?php

$link = mysql_connect('mariadb', 'cs332a27', 'ofoofege');
if (!$link) {
die('Could not connect:'. mysql_error());
}
echo 'Connected successfully<p>';

mysql_select_db("cs332a27",$link);

$course = $_POST["courses"];

$section = $_POST["sections"];

$result = mysql_query(
        "
SELECT Grade, COUNT(Grade) as gradeCount
FROM Enrollment
WHERE Course = '$course' and Section = '$section'
Group by Grade
",$link);

for($i=0; $i<mysql_numrows($result); $i++)
```

```php
{
echo "Grade: ", mysql_result($result,$i,"Grade"), "<br>";
echo "Count: ", mysql_result($result,$i,"gradeCount"), "<br>";
}
mysql_close($link);
?>
</body>
</html>
```

Student_course.php
```php
<html>
<body>

<?php

$link = mysql_connect('mariadb','cs332a27','ofoofege');

if(!$link){
    die('Could not connect'.mysql_error());
}
echo 'Connected successfully<p>';

mysql_select_db("cs332a27", $link);

$Course = $_POST["sCourse"];

$result = mysql_query(
    "Select Sec_num, Meeting_days, Classroom, Start_time, End_time,
COUNT(Enrollment.Student) as enroll
    From Section, Enrollment
    Where C_num = '$Course' AND Course = '$Course' AND Sec_num =
Section
    Group by Sec_num"
, $link);

for($i = 0; $i < mysql_numrows($result); $i++){
    echo "Section: ", mysql_result($result, $i, "Sec_num") , "<br>";
    echo "Classroom: ", mysql_result($result, $i, "Classroom") ,  "<br>";
    echo "Meeting days: ", mysql_result($result, $i, "Meeting_days") ,
"<br>";
```

```php
        echo "Start time: ", mysql_result($result, $i, "Start_time") ,  "<br>";
        echo "End time: ", mysql_result($result, $i, "End_time") ,  "<br>";
        echo "Number enrolled: ", mysql_result($result, $i, "enroll") , "<br>";
}

mysql_close($link);

?>

</body>
</html>
```

Student_records.php

```php
<html>
<body>

<?php

$link = mysql_connect('mariadb','cs332a27','ofoofege');

if(!$link){
    die('Could not connect'.mysql_error());
}
echo 'Connected successfully<p>';

mysql_select_db("cs332a27", $link);

$CWID = $_POST["studentId"];

$result = mysql_query(
    "
    Select Course, Grade
    From Enrollment
    Where Student = '$CWID'
    ", $link);

for($i = 0; $i < mysql_numrows($result); $i++){
    echo "Course: ", mysql_result($result, $i, "Course") , "<br>";
    echo "Grade: ", mysql_result($result, $i, "Grade") , "<br>";
}
```

```php
mysql_close($link);
?>
</body>
</html>
```