

CS332-01Project Cover Page

Project Team:

- Adrian Puentes CWID 1376
- Joseph Haddad CWID 7772
- Lorenzo Openano CWID 7651

Project Account: cs332s34

Project Homepage: <http://ecs.fullerton.edu/~cs332s34/index.html>

DDL:

```
CREATE TABLE Course(  
  CourseNum int NOT NULL,  
  Title varchar(50),  
  Units int,  
  TextBook varchar(50),  
  DeptNo int NOT NULL,  
  PRIMARY KEY (CourseNum),  
  FOREIGN KEY (DeptNo) REFERENCES Department(DeptNum));
```

```
CREATE TABLE Degree(  
  Degree varchar(35) NOT NULL,  
  ProfSSN varchar(11) NOT NULL,  
  PRIMARY KEY (Degree),  
  FOREIGN KEY (ProfSSN) REFERENCES Professor(SSN));
```

```
CREATE TABLE Department(  
  DeptNum int NOT NULL,  
  DeptName varchar(50),  
  Location varchar(35),  
  Phone int,  
  Chairperson varchar(11) NOT NULL,  
  PRIMARY KEY (DeptNum),  
  FOREIGN KEY (Chairperson) REFERENCES Professor(SSN));
```

```
CREATE TABLE Enroll(  
  StudentID int NOT NULL,  
  SectionNo int NOT NULL,  
  CourseNumber int NOT NULL,  
  Grade varchar(2),  
  PRIMARY KEY (StudentID),  
  FOREIGN KEY (SectionNo) REFERENCES Section(SectionNum),  
  FOREIGN KEY (CourseNumber) REFERENCES Section(CourseNum));
```

```
CREATE TABLE Minor(  
  StudentID int NOT NULL,  
  DeptNo int NOT NULL,  
  FOREIGN KEY (StudentID) REFERENCES Student(CWID),  
  FOREIGN KEY (DeptNo) REFERENCES Department(DeptNum));
```

```
CREATE TABLE Prerequisite(  
Prereq varchar(35) NOT NULL,  
CourseNumber int NOT NULL,  
PRIMARY KEY (Prereq),  
FOREIGN KEY (CourseNumber) REFERENCES Course(CourseNum));
```

```
CREATE TABLE Professor(  
SSN varchar(11) NOT NULL,  
Sex varchar(2),  
AreaCode int,  
7Digit int,  
Zip int,  
State varchar(2),  
City varchar(35),  
Street varchar(50),  
Title varchar(35),  
Name varchar(50),  
Salary float,  
PRIMARY KEY (SSN));
```

```
CREATE TABLE Section(  
SectionNum int NOT NULL,  
CourseNumber int NOT NULL,  
PSSN varchar(11) NOT NULL,  
Classroom varchar(8),  
NumOfSeats varchar(8),  
MeetingDays varchar(8),  
BeginTime varchar(8),  
EndTime varchar(8),  
PRIMARY KEY (SectionNum),  
FOREIGN KEY (CourseNumber) REFERENCES Course(CourseNum),  
FOREIGN KEY (PSSN) REFERENCES Professor(SSN));
```

```
CREATE TABLE Student(  
CWID int NOT NULL,  
FirstName varchar(50),  
LastName varchar(50),  
Phone varchar(14),  
Address varchar(90),  
DeptNo int NOT NULL,  
PRIMARY KEY (CWID),  
FOREIGN KEY (DeptNo) REFERENCES Department(DeptNum));
```

SQL

Professor queries:

//Return Professor Schedule

```
Select
    Course.Title,
    Section.Classroom,
    Section.MeetingDays,
    Section.BeginTime,
    Section.EndTime
FROM
    Section,
    Course
WHERE Section.CourseNumber = Course.CourseNum
AND Section.PSSN = "._POST["pssn"].";
```

//Return Grades

```
Select
    Grade,
    Count(Grade) as GradeCount
FROM
    Enroll
WHERE SectionNo = "._POST["Snum"]."
AND CourseNumber = "._POST["Cnum"]."
Group By Grade;
```

Student Queries:

//Return Courses and Grades

```
Select
    e.StudentID,
    e.CourseNumber,
    e.Grade,
    c.Title
FROM
    Enroll e,
    Course c
WHERE
    e.CourseNumber = c.CourseNum
AND e.StudentID = "._POST["CWID"].";
```

//Return Course Info

Select

 e.CourseNumber,
 e.SectionNo,
 s.Classroom,
 s.MeetingDays,
 s.BeginTime,
 s.EndTime,
 count(e.StudentID) as sCount

FROM

 Section s,

 Enroll e

WHERE

 e.SectionNo = s.SectionNum and e.CourseNumber = s.CourseNumber

AND e.CourseNumber = ".\$_POST["Cnum"]."

Group By e.SectionNo;

Source Code

Index.html

```
<!DOCTYPE html>
<html>

<head>
  <title>CPSC332 Project</title>

  <style>
    .footer {
      position: fixed;
      left: 0;
      bottom: 0;
      width: 100%;
      text-align: center;
    }
    .button {
      /**/
      background-color: #00274C;
      border: none;
      color: #F58220;
      padding: 30px 64px;
      text-align: center;
      text-decoration: none;
      display: inline-block;
      font-size: 32px;
      border-radius: 5em;
    }
    .button:hover{
      background-color: #0069CC;
    }
    #title{
      font-size: 40pt;
    }

  </style>
</head>

<body>
  <h1 id="title">
    <center>CPSC 332 Project</center>
  </h1>
```

</br>

<center>

<div>

Professor Page

Student Page

</div>

</center>

<div class="footer">

Programmers:

</br>

Adrian Puentes

</br>

Joseph Haddad

</br>

Leorenzo Openano

</div>

</body>

</html>

Professor.php

<!DOCTYPE html>

<html lang="en" dir="ltr">

<head>

<meta charset="utf-8">

<title>Professor Page</title>

<link rel="stylesheet"

href="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css"

integrity="sha384-Vkoo8x4CGsO3+Hhxv8T/Q5PaXtkKtu6ug5TOeNV6gBiFeWPGFN9MuhOf23Q9Ifjh" crossorigin="anonymous">

<link rel="stylesheet"

href="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css"

integrity="sha384-Vkoo8x4CGsO3+Hhxv8T/Q5PaXtkKtu6ug5TOeNV6gBiFeWPGFN9MuhOf23Q9Ifjh" crossorigin="anonymous">

```
<link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">
<style>
    .pad{
        padding: 20px 20px 20px 20px;
    }
    .footer {
        position: fixed;
        left: 0;
        bottom: 0;
        width: 100%;
        text-align: center;
    }
    .home{
        position: fixed;
        left: 0;
        width: 100%;
        text-align: right;
        padding: 0px 30px 5px 0px;
        font-size: 35px;
    }
</style>
</head>
<body class="pad">
    <div class="container-fluid">
        <div class="home">
            <a href="index.html"><i class="fa fa-home" aria-hidden="true"></i></a>
        </div>
        <div class="row">
            <h1>Professor</h1>

        </div>
    </div>
    <div class="row">

        <form action="Professor.php" method="post">
            Return Professor Schedule:
            <form class="form-inline">
                <div class="form-group mb-2">
                    <input type="text" name="pssn"placeholder="XXX-XX-XXXX">
                    <button type="submit" class="btn btn-primary mb-2">Submit</button>
                </div>
            </form>
        </form>
    </div>
</form>
```


</div>

<div class="row">

<form action="Professor.php" method="post">

Return Grades:

<form class="form-inline">

<div class="form-group mb-2">

<input type="text" name="Cnum" placeholder="Course Number">

<input type="text" name="Snum" placeholder="Section Number">

<button type="submit" class="btn btn-primary mb-2">Submit</button>

</div>

</form>

<!-- <input type="text" name="Cnum">

<input type="text" name="Snum">

<button type="submit" name="button">submit</button>

--> </form>

<!--

more form posts here

-->

</div>

<div class="row justify-content-left">

<?php

if(!empty(\$_POST['pssn'])){

\$conn = mysql_connect('mariadb', 'cs332s34', 'sho4ahBi');

if(!\$conn){

die('Could not connect to DB '.mysql_error());

}

mysql_select_db("cs332s34",\$conn);

\$sql ="

Select

Course.Title,

Section.Classroom,

Section.MeetingDays,

Section.BeginTime,

Section.EndTime

```

FROM
    Section,
    Course
WHERE Section.CourseNumber = Course.CourseNum
AND Section.PSSN = " ".$_POST["pssn"]."";
$result = mysql_query($sql, $conn);
if(mysql_numrows($result)==0){
    echo "</br><h3>We could not find SSN ".$_POST["pssn"]." in our records.</h3></br>";
}
//output here
for($i=0; $i<mysql_numrows($result); $i++)
{
    ?>
    <div class="col-sm-auto">
        <div class="card" style="width: 18rem;">
            <div class="card-body">
                <h5 class="card-title"><?php echo mysql_result($result,$i,"Title"); ?></h5>
                <h6 class="card-subtitle mb-2 text-muted"><?php echo "Room
".mysql_result($result,$i,"Classroom"); ?></h6>
                <p class="card-text"><?php echo mysql_result($result,$i,"MeetingDays")." at
".mysql_result($result,$i,"BeginTime")." to ".mysql_result($result,$i,"EndTime"); ?></p>
            </div>
        </div>
    </div>
    <?php
}

mysql_close($conn);
}
?>
</div>
<div class="row justify-content-sm-left">
    <?php

    if(!empty($_POST['Cnum'])&&!empty($_POST['Snum'])){
        $conn = mysql_connect('mariadb', 'cs332s34', 'sho4ahBi');
        if(!$conn){
            die('Could not connect to DB '.mysql_error());
        }

        mysql_select_db("cs332s34",$conn);
        $sql ="
        Select

```

```

    Grade,
    Count(Grade) as GradeCount
FROM
    Enroll
WHERE SectionNo = ".$_POST["Snum"]."
AND CourseNumber = ".$_POST["Cnum"]."
Group By Grade;";

```

```

$result = mysql_query($sql, $conn);
if(mysql_numrows($result)==0){
    echo "</br><h3>We could not find Snum ".$_POST["Snum"]." in our
records.</h3></br>";
}

```

```

?>
<div class="col-md-3">
    <div class="row">

```

```

<table class="table">
    <thead>
        <tr>
            <th scope="col">Grade</th>
            <th scope="col">Count</th>
        </tr>
    </thead>
    <tbody>
        <?php
            for($i=0; $i<mysql_numrows($result); $i++){
                ?>
                <tr>
                    <td><?php echo mysql_result($result,$i,"Grade");?> </td>
                    <td><?php echo mysql_result($result,$i,"GradeCount"); ?> </td>
                </tr>
            <?php
            }
            ?>
        </tbody>
    </table>
</div>
</div>
<?php

```

```
        //output here
        // for($i=0; $i<mysql_numrows($result); $i++)
        // {
        //     echo "</br>".mysql_result($result,$i,"Grade")
        //     .mysql_result($result,$i,"GradeCount"), "</br>";
        // }

        mysql_close($conn);
    }

    //if more posts here
    ?>
</div>
```

</div>

<div class="footer">

Programmers:

</br>

Adrian Puentes

</br>

Joseph Haddad

</br>

Leorenzo Openano

</div>

</body>

</html>

student.php

<!DOCTYPE html>

<html lang="en" dir="ltr">

<head>

<meta charset="utf-8">

<title>Student Page</title>

```

<link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css"
integrity="sha384-Vkoo8x4CGsO3+Hhxv8T/Q5PaXtkKtu6ug5TOeNV6gBiFeWPGFN9MuhOf23
Q9Ifjh" crossorigin="anonymous">
<meta name="viewport" content="width=device-width, initial-scale=1">
<link rel="stylesheet" href="https://www.w3schools.com/w3css/4/w3.css">
<link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">
<style>
.pad{
padding: 20px 20px 20px 20px;
}

.footer {
position: fixed;
left: 0;
bottom: 0;
width: 100%;
text-align: center;
}
.home{
position: fixed;
left: 0;
width: 100%;
text-align: right;
padding: 0px 30px 5px 0px;
font-size: 35px;
}
</style>
</head>
<body class="pad">
<div class="home">
<a href="index.html"><i class="fa fa-home" aria-hidden="true"></i></a>
</div>
<h1>Student </h1>
<div>

<form action="student.php" method="post">
Return courses and grades:
<input type="text" placeholder="CWID" name="CWID">
<button type="submit" name="button">submit</button>
</form></br>

```

```

<form action="student.php" method="post">
  Return Course Information:
  <input type="text" placeholder="Course Number" name="Cnum">
  <button type="submit" name="button">submit</button>
</form></br>

```

```

<!--
  more form posts here
-->
</div>

```

```

<div class="row justify-content-left pad">
  <?php
    if(!empty($_POST['CWID'])){
      $conn = mysql_connect('mariadb', 'cs332s34', 'sho4ahBi');
      if(!$conn){
        die('Could not connect to DB '.mysql_error());
      }

      mysql_select_db("cs332s34",$conn);
      $sql ="
      Select
        e.StudentID,
        e.CourseNumber,
        e.Grade,
        c.Title
      FROM
        Enroll e,
        Course c
      WHERE
        e.CourseNumber = c.CourseNum
        AND e.StudentID = " .$_POST["CWID"].".";";
      $result = mysql_query($sql, $conn);
      if(mysql_numrows($result)==0){
        echo "</br><h3>We could not find CWID " .$_POST["CWID"]." in our records.</h3></br>";
      }
    }
  ?>

```

```

<div class="col-md-3">
  <div class="row">

```

```

    <table class="table table-striped table-bordered table-hover">
    <thead>

```

```

        <tr>
            <th scope="col">Course</th>
            <th scope="col">Grade</th>
        </tr>
    </thead>
    <tbody>
    <?php
        for($i=0; $i<mysql_numrows($result); $i++){
            ?>
            <tr>
                <td><?php echo mysql_result($result,$i,"Title");?> </td>
                <td><?php echo mysql_result($result,$i,"Grade"); ?> </td>
            </tr>
            <?php
                }
            ?>
        </tbody>
    </table>
</div>
</div>
    <?php
        //output here
        // for($i=0; $i<mysql_numrows($result); $i++)
        // {
        //     echo "</br>".mysql_result($result,$i,"Grade")
        //     .mysql_result($result,$i,"GradeCount"), "</br>";
        // }

        mysql_close($conn);
    }

    //if more posts here
    ?>
</div>

<div class="row justify-content-left">
    <?php

        if(!empty($_POST['Cnum'])){
            $conn = mysql_connect('mariadb', 'cs332s34', 'sho4ahBi');
            if(!$conn){
                die('Could not connect to DB '.mysql_error());
            }
        }
    </div>

```

```

mysql_select_db("cs332s34",$conn);
$sql =
Select
    e.CourseNumber,
    e.SectionNo,
    s.Classroom,
    s.MeetingDays,
    s.BeginTime,
    s.EndTime,
    count(e.StudentID) as sCount
FROM
    Section s,
    Enroll e WHERE e.SectionNo = s.SectionNum and e.CourseNumber =
s.CourseNumber
AND e.CourseNumber = ".$_POST["Cnum"]."
Group By e.SectionNo;";

$result = mysql_query($sql, $conn);
if(mysql_numrows($result)==0){
    echo "</br><h3>We could not find Course number ".$_POST["Cnum"]." in our
records.</h3></br>";
}

//output here
for($i=0; $i<mysql_numrows($result); $i++)
{
    ?>
    <div class="col-sm-auto">
        <div class="card" style="width: 18rem;">
            <div class="card-body">
                <h5 class="card-title"><?php echo mysql_result($result,$i,"CourseNumber"); ?></h5>
                <h6 class="card-subtitle mb-2 text-muted"><?php echo "Section
".mysql_result($result,$i,"SectionNo"); ?></h6>
                <p class="card-text"><?php echo "No. of students enrolled
".mysql_result($result,$i,"sCount"); ?></p>
                <p class="card-text"><?php echo "Room ". mysql_result($result,$i,"Classroom");
?></p>
                <p class="card-text"><?php echo mysql_result($result,$i,"MeetingDays")." at
".mysql_result($result,$i,"BeginTime")." to ".mysql_result($result,$i,"EndTime"); ?></p>
            </div>
        </div>
    </div>
}

```



```
<?php
}

mysql_close($conn);
}
```

```
//if more posts here
?>
```

```
<div class="footer">
```

```
Programmers:
```

```
</br>
```

```
Adrian Puentes
```

```
</br>
```

```
Joseph Haddad
```

```
</br>
```

```
Leorenzo Openano
```

```
</div>
```

```
</body>
```

```
</html>
```

Insert Records:

insert into Department values

('1234','Computer Science','CS100','5551122','123-55-1234'),
('4321', 'Mathematics', 'M200', '5559800', '555-12-1122');

insert into Professor values ('123-55-1234', 'M', '657', '5551234', 'CA', 'Fullerton', 'State College', 'Professor', 'John Doe', '145000'), ('555-12-1122', 'F', '657', '5556789', 'CA', 'Fullerton', 'State College', 'Professor', 'Jane Smith', '152000'), ('555-91-2200', 'M', '657', '5559000', '92806', 'CA', 'Fullerton', 'State College', 'Professor', 'Joe blough', '102000');

insert into Course values ('332', 'File Structures and Databases Systems', '3', 'Intro to Database Systems', '1234'), ('300', 'Data Structures', '3', 'Data Structures C++', '1234'), ('338', 'Statistics', '4', 'Stats', '4321'), ('351', 'Linear Algebra', '4', 'Linear Algebra and Matrices', '4321');

Insert into Student values ('888892502', 'Alex', 'Chan', '310-882-9341', '6133, Seven St. Fullerton, CA 92831', '4321'), ('889488383', 'Eric', 'Kwon', '323-561-8964', '4734, Lane St. Fullerton, CA 92806', '1234'), ('891373300', 'Dylan', 'Lee', '310-854-7651', '8532, Bacon St. Brea, CA 92843', '4321'), ('888990991', 'Lawrence', 'Smith', '323-732-0984', '2563, Blaze Blvd. Yorba Linda, CA 92674', '1234'), ('893403196', 'Maria', 'Lopez', '310-076-5432', '3534, Cake St. Torrance, CA 90503', '1234'), ('889381893', 'Kevin', 'James', '323-908-3456', '9043, Durian St. Fullerton, CA 92831', '4321'), ('890118037', 'Jorge', 'Sandler', '310-324-6709', '4543, Oxford St. Fullerton, CA 92831', '1234'), ('888372703', 'Sam', 'Ye', '310-432-7869', '6543, Durian St. Torrance, CA 90503', '4321');

Insert into Section values ('01', '351', '123-55-1234', 'CS 102', '35', 'MoWe', '1:00PM', '2:15PM'), ('02', '300', '555-12-1122', 'CS 301', '40', 'TuTh', '4:00PM', '5:15PM'), ('10', '338', '555-91-2200', 'McCarthy 215', '35', 'Mo', '1:00PM', '3:45PM'), ('04', '338', '555-91-2200', 'McCarthy 423', '25', 'MoWe', '5:30PM', '6:45PM'), ('05', '351', '123-55-1234', 'McCarthy 506', '35', 'TuTh', '10:00AM', '11:15AM'), ('07', '332', '555-12-1122', 'CS 305', '40', 'Tu', '11:00AM', '1:15PM');

Insert into Enroll values ('891373300', '01', '351', 'A'), ('891373300', '02', '300', 'B+'), ('889488383', '04', '338', 'C-'), ('889488383', '07', '332', 'B'), ('888892502', '10', '338', 'A-'), ('888892502', '05', '351', 'C+'), ('888990991', '07', '332', 'A'), ('888990991', '02', '300', 'D'), ('888990991', '04', '338', 'C+'), ('893403196', '07', '332', 'B-'), ('893403196', '01', '351', 'B'), ('893403196', '10', '338', 'C'), ('889381893', '02', '300', 'C+'), ('889381893', '04', '338', 'B'), ('889381893', '05', '351', 'A+'), ('890118037', '01', '351', 'A'), ('890118037', '10', '338', 'B+'), ('890118037', '02', '300', 'C'), ('888372703', '01', '351', 'A-'), ('888372703', '04', '338', 'B');

Interface Screenshots

/index.html

CPSC 332 Project

Professor Page

Student Page

Programmers:
Adrian Puentes
Joseph Haddad
Leorenzo Openano

/Professor.php

Professor



Return Professor Schedule:

Submit

Return Grades:

Submit

Programmers:
Adrian Puentes
Joseph Haddad
Leorenzo Openano

Student



Return courses and grades:

Return Course Information:

Programmers:
Adrian Puentes
Joseph Haddad
Leorenzo Openano

Sample Runs

Input Professor SSN and Output Schedule

Professor



Return Professor Schedule:

Return Grades:

Linear Algebra

Room CS 102

MoWe at 1:00PM to 2:15PM

Linear Algebra

Room McCarthy

TuTh at 10:00AM to 11:15AM

Programmers:
Adrian Puentes
Joseph Haddad
Leorenzo Openano

Input Professor Course and Section Number Output Grades

Professor



Return Professor Schedule:

Return Grades:

Grade	Count
A-	1
B+	1
C	1

Programmers:
Adrian Puentes
Joseph Haddad
Leorenzo Openano

Input Student CWID Output Courses and Grades

Student



Return courses and grades:

Return Course Information:

Course	Grade
Data Structures	C
Statistics	B+
Linear Algebra	A

Programmers:
Adrian Puentes
Joseph Haddad
Leorenzo Openano

Input Course Number Output Course Info

Student



Return courses and grades:

Return Course Information:

351

Section 1

No. of students enrolled 4

Room CS 102

MoWe at 1:00PM to 2:15PM

351

Section 5

No. of students enrolled 2

Room McCarthy

TuTh at 10:00AM to 11:15AM

Programmers:
Adrian Puentes
Joseph Haddad
Leorenzo Openano



