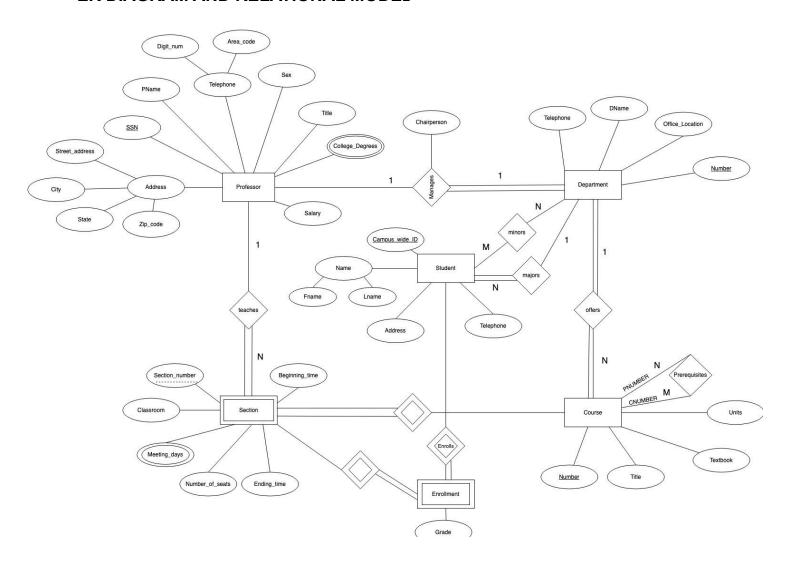
CPSC 332 File Structures and Databases

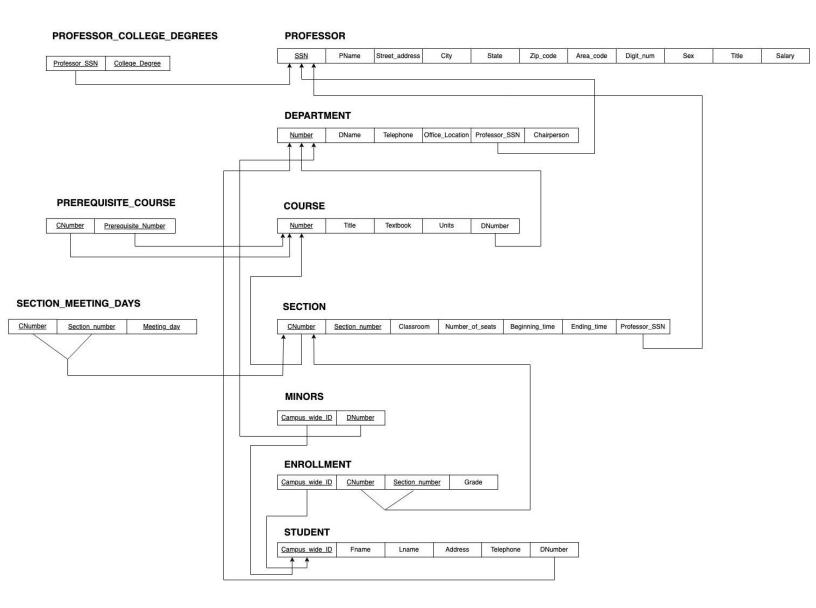
Instructor: Shawn X Wang Fall 2022

Project Implementation Account: cs332f26 http://ecs.fullerton.edu/~cs332f26/ Password: 6Kqjr0YR

> Saul Ruiz (1602) Pedro Morales (0584) Hyojun Lee (2426)

ER DIAGRAM AND RELATIONAL MODEL





Source Code/Implementation:

DDL

```
CREATE TABLE PROFESSOR (SSN NUMERIC(9) PRIMARY KEY,
   PNAME VARCHAR (50),
  STREET ADDRESS VARCHAR (30),
  CITY VARCHAR (20),
  STATE CHAR(2),
  ZIP_CODE CHAR(5),
  AREA CODE NUMERIC (3),
  DIGIT NUM NUMERIC (7),
  SEX ENUM('F', 'M'),
  TITLE VARCHAR (30),
  SALARY NUMERIC (6));
CREATE TABLE DEPARTMENT (NUMBER NUMERIC(10) PRIMARY KEY,
  DNAME VARCHAR (30),
  TELEPHONE NUMERIC (10),
  OFFICE LOCATION VARCHAR (30),
  PROFESSOR SSN NUMERIC (9),
  FOREIGN KEY (PROFESSOR SSN) REFERENCES PROFESSOR (SSN),
  CHAIRPERSON VARCHAR (50));
CREATE TABLE COURSE (NUMBER VARCHAR(10) PRIMARY KEY,
  TITLE VARCHAR (30),
  TEXTBOOK VARCHAR (50),
  UNITS TINYINT,
  DNUMBER NUMERIC (10),
   FOREIGN KEY (DNUMBER) REFERENCES DEPARTMENT (NUMBER));
CREATE TABLE SECTION (CNUMBER VARCHAR(10),
   FOREIGN KEY (CNUMBER) REFERENCES COURSE (NUMBER),
  SECTION NUMBER NUMERIC (10),
  CLASSROOM VARCHAR (30),
  NUMBER_OF_SEATS NUMERIC(3),
```

```
BEGINNING TIME VARCHAR (10),
  ENDING TIME VARCHAR (10),
   PRIMARY KEY (CNUMBER, SECTION NUMBER),
  PROFESSOR SSN NUMERIC (9),
  FOREIGN KEY (PROFESSOR SSN) REFERENCES PROFESSOR(SSN));
CREATE TABLE STUDENT (CAMPUS WIDE ID NUMERIC(9) PRIMARY KEY,
   FNAME VARCHAR (30),
  LNAME VARCHAR (30),
  ADDRESS VARCHAR (50),
  TELEPHONE NUMERIC (10),
  DNUMBER NUMERIC(10),
  FOREIGN KEY (DNUMBER) REFERENCES DEPARTMENT (NUMBER));
CREATE TABLE ENROLLMENT (CAMPUS WIDE ID NUMERIC(9),
   FOREIGN KEY (CAMPUS WIDE ID) REFERENCES STUDENT (CAMPUS WIDE ID),
  CNUMBER VARCHAR (10),
  SECTION NUMBER NUMERIC (10),
  FOREIGN KEY (CNUMBER, SECTION NUMBER) REFERENCES SECTION (CNUMBER, SECTION NUMBER),
  GRADE ENUM ('A+', 'A', 'A-', 'B+', 'B', 'B-', 'C+', 'C', 'C-', 'D+', 'D', 'D-',
'F', 'W'),
  PRIMARY KEY (CAMPUS WIDE ID, CNUMBER, SECTION NUMBER));
CREATE TABLE MINORS (CAMPUS WIDE ID NUMERIC(9),
  FOREIGN KEY (CAMPUS WIDE ID) REFERENCES STUDENT (CAMPUS WIDE ID),
  DNUMBER NUMERIC(10),
   FOREIGN KEY (DNUMBER) REFERENCES DEPARTMENT (NUMBER),
   PRIMARY KEY (CAMPUS WIDE ID, DNUMBER));
CREATE TABLE PROFESSOR COLLEGE DEGREES (PROFESSOR SSN NUMERIC(9),
  FOREIGN KEY (PROFESSOR SSN) REFERENCES PROFESSOR(SSN),
  COLLEGE DEGREE VARCHAR (30),
  PRIMARY KEY (PROFESSOR SSN, COLLEGE DEGREE));
CREATE TABLE PREREQUISITE COURSE (CNUMBER VARCHAR(10) REFERENCES COURSE(NUMBER),
   PREREQUISITE NUMBER VARCHAR (10) REFERENCES COURSE (NUMBER),
   PRIMARY KEY (CNUMBER, PREREQUISITE NUMBER));
CREATE TABLE SECTION MEETING DAYS (CNUMBER VARCHAR(10) REFERENCES SECTION(CNUMBER),
  SECTION NUMBER NUMERIC(10) REFERENCES SECTION(SECTION_NUMBER),
  MEETING_DAY ENUM ('Mon', 'Tues', 'Wed', 'Thurs', 'Fri', 'Sat'),
  PRIMARY KEY (CNUMBER, SECTION NUMBER, MEETING DAY));
```

```
PROFESSOR TABLE INSERTS
INSERT INTO PROFESSOR(SSN, PNAME, STREET ADDRESS, CITY, STATE, ZIP CODE, AREA CODE,
DIGIT NUM, SEX, TITLE, SALARY)
VALUES('123456789', 'John Smith', '123 E Red St', 'Fullerton', 'CA', '90621', '657',
'1234567', 'M', 'Professor', '120000');
INSERT INTO PROFESSOR (SSN, PNAME, STREET ADDRESS, CITY, STATE, ZIP CODE, AREA CODE,
DIGIT NUM, SEX, TITLE, SALARY)
VALUES('342481341', 'Jane Williams', '4921 S Blue St', 'Anaheim', 'CA', '90703',
'657', '4921924', 'F', 'Professor', '120000');
INSERT INTO PROFESSOR (SSN, PNAME, STREET ADDRESS, CITY, STATE, ZIP CODE, AREA CODE,
DIGIT NUM, SEX, TITLE, SALARY)
VALUES('999999999', 'Richard Sanchez', '806 W Elm St', 'Laguna Hills', 'CA', '92637',
'949', '1030507', 'M', 'Adjunct Professor', '45000');
INSERT INTO PROFESSOR (SSN, PNAME, STREET ADDRESS, CITY, STATE, ZIP CODE, AREA CODE,
DIGIT NUM, SEX, TITLE, SALARY)
VALUES('514440011', 'Casey Jones', '501 N Washington St', 'Fullerton', 'CA', '90621',
'657', '0214260', 'M', 'Associate Professor', '90000');
-- DEPARTMENT TABLE INSERTS
INSERT INTO DEPARTMENT (NUMBER, DNAME, TELEPHONE, OFFICE LOCATION, PROFESSOR SSN,
CHAIRPERSON)
VALUES('1000000000', 'CPSC', '9428192412', 'CS-201', '123456789', 'John Smith');
INSERT INTO DEPARTMENT (NUMBER, DNAME, TELEPHONE, OFFICE LOCATION, PROFESSOR SSN,
CHAIRPERSON)
VALUES('2000000000', 'MATH', '9422452391', 'MH-514', '342481341', 'Jane Williams');
-- COURSE TABLE INSERTS
INSERT INTO COURSE (NUMBER, TITLE, TEXTBOOK, UNITS, DNUMBER)
VALUES('CPSC 131', 'Data Structures', 'Introduction to Data Structures', '3',
'1000000000');
INSERT INTO COURSE (NUMBER, TITLE, TEXTBOOK, UNITS, DNUMBER)
VALUES('CPSC 121', 'Object-Oriented Programming', 'Introduction to OO Programming',
'3', '1000000000');
INSERT INTO COURSE (NUMBER, TITLE, TEXTBOOK, UNITS, DNUMBER)
VALUES('MATH 150A', 'Calculus I', 'Calculus Essentials', '3', '2000000000');
```

```
INSERT INTO COURSE (NUMBER, TITLE, TEXTBOOK, UNITS, DNUMBER)
VALUES('MATH 150B', 'Calculus II', 'Calculus Essentials', '3', '2000000000');
-- SECTION TABLE INSERTS
INSERT INTO SECTION (CNUMBER, SECTION NUMBER, CLASSROOM, NUMBER OF SEATS,
BEGINNING TIME, ENDING TIME, PROFESSOR SSN)
VALUES('CPSC 131', '12345', 'CS-101', '30', '1:00 PM', '2:15 PM', '123456789');
INSERT INTO SECTION(CNUMBER, SECTION NUMBER, CLASSROOM, NUMBER OF SEATS,
BEGINNING TIME, ENDING TIME, PROFESSOR SSN)
VALUES('CPSC 121', '12346', 'CS-102', '40', '11:00 AM', '12:15 PM', '5144440011');
INSERT INTO SECTION(CNUMBER, SECTION NUMBER, CLASSROOM, NUMBER OF SEATS,
BEGINNING TIME, ENDING TIME, PROFESSOR SSN)
VALUES('CPSC 121', '12347', 'CS-102', '30', '2:00 PM', '3:15 PM', '514440011');
INSERT INTO SECTION(CNUMBER, SECTION NUMBER, CLASSROOM, NUMBER OF SEATS,
BEGINNING TIME, ENDING TIME, PROFESSOR SSN)
VALUES('MATH 150A', '12001', 'MH-410', '35', '9:00 AM', '10:50 AM', '342481341');
INSERT INTO SECTION (CNUMBER, SECTION NUMBER, CLASSROOM, NUMBER OF SEATS,
BEGINNING TIME, ENDING TIME, PROFESSOR SSN)
VALUES('MATH 150B', '12101', 'H-205', '30', '9:00 AM', '10:50 AM', '999999999');
INSERT INTO SECTION (CNUMBER, SECTION NUMBER, CLASSROOM, NUMBER OF SEATS,
BEGINNING TIME, ENDING TIME, PROFESSOR SSN)
VALUES('MATH 150B', '12102', 'H-205', '35', '1:00 PM', '2:50 PM', '999999999');
-- STUDENT TABLE INSERTS
INSERT INTO STUDENT(CAMPUS WIDE ID, FNAME, LNAME, ADDRESS, TELEPHONE, DNUMBER)
VALUES('987654321', 'Jada', 'Roberts', '987 W Lake Dr, Fullerton, CA 90620',
'6579876543', '1000000000');
INSERT INTO STUDENT(CAMPUS WIDE ID, FNAME, LNAME, ADDRESS, TELEPHONE, DNUMBER)
VALUES('180604020', 'Christopher', 'Jackson', '1932 E Lincoln Dr, Anaheim, CA 90703',
'6570806040', '2000000000');
INSERT INTO STUDENT(CAMPUS WIDE ID, FNAME, LNAME, ADDRESS, TELEPHONE, DNUMBER)
VALUES('181614121', 'Thomas', 'Cruz', '120 S Pool St, Fullerton, CA 90620',
'6571816141', '2000000000');
```

```
INSERT INTO STUDENT (CAMPUS WIDE ID, FNAME, LNAME, ADDRESS, TELEPHONE, DNUMBER)
VALUES('937353332', 'Andrew', 'Canon', '2049 N Cherry St, Anaheim, CA 90703',
'6572826242', '1000000000');
INSERT INTO STUDENT(CAMPUS WIDE ID, FNAME, LNAME, ADDRESS, TELEPHONE, DNUMBER)
VALUES('484644345', 'Amber', 'Morrison', '941 E Maple Dr, Fullerton, CA 90620',
'6573836343', '2000000000');
INSERT INTO STUDENT(CAMPUS WIDE ID, FNAME, LNAME, ADDRESS, TELEPHONE, DNUMBER)
VALUES('585654328', 'Olivia', 'Charles', '492 W Broadway St, Anaheim, CA 90703',
'6574846443', '1000000000');
INSERT INTO STUDENT(CAMPUS WIDE ID, FNAME, LNAME, ADDRESS, TELEPHONE, DNUMBER)
VALUES('967656321', 'William', 'Smith', '502 S Arbor Dr, Fullerton, CA 90620',
'6575856545', '2000000000');
INSERT INTO STUDENT(CAMPUS WIDE ID, FNAME, LNAME, ADDRESS, TELEPHONE, DNUMBER)
VALUES('787657327', 'Jonathan', 'Garcia', '812 N Harbor St, Fullerton, CA 90620',
'6576866546', '1000000000');
- ENROLLMENT TABLE INSERTS
INSERT INTO ENROLLMENT (CAMPUS WIDE ID, CNUMBER, SECTION NUMBER, GRADE)
VALUES('987654321', 'CPSC 131', '12345', 'A-');
INSERT INTO ENROLLMENT (CAMPUS WIDE ID, CNUMBER, SECTION NUMBER, GRADE)
VALUES('987654321', 'CPSC 121', '12346', 'A+');
INSERT INTO ENROLLMENT (CAMPUS WIDE ID, CNUMBER, SECTION NUMBER, GRADE)
VALUES('987654321', 'MATH 150A', '12001', 'B-');
INSERT INTO ENROLLMENT (CAMPUS WIDE ID, CNUMBER, SECTION NUMBER, GRADE)
VALUES('987654321', 'MATH 150B', '12102', 'C+');
INSERT INTO ENROLLMENT (CAMPUS WIDE ID, CNUMBER, SECTION NUMBER, GRADE)
VALUES('180604020', 'CPSC 131', '12345', 'D-');
INSERT INTO ENROLLMENT (CAMPUS WIDE ID, CNUMBER, SECTION NUMBER, GRADE)
VALUES('180604020', 'CPSC 121', '12347', 'C+');
INSERT INTO ENROLLMENT (CAMPUS WIDE ID, CNUMBER, SECTION NUMBER, GRADE)
VALUES('180604020', 'MATH 150A', '12001', 'F');
```

```
INSERT INTO ENROLLMENT (CAMPUS WIDE ID, CNUMBER, SECTION NUMBER, GRADE)
VALUES('181614121', 'CPSC 121', '12346', 'W');
INSERT INTO ENROLLMENT (CAMPUS WIDE ID, CNUMBER, SECTION NUMBER, GRADE)
VALUES('181614121', 'MATH 150A', '12001', 'D');
INSERT INTO ENROLLMENT (CAMPUS WIDE ID, CNUMBER, SECTION NUMBER, GRADE)
VALUES('937353332', 'MATH 150A', '12001', 'A');
INSERT INTO ENROLLMENT (CAMPUS WIDE ID, CNUMBER, SECTION NUMBER, GRADE)
VALUES('937353332', 'MATH 150B', '12101', 'B+');
INSERT INTO ENROLLMENT (CAMPUS WIDE ID, CNUMBER, SECTION NUMBER, GRADE)
VALUES('484644345', 'CPSC 121', '12347', 'A+');
INSERT INTO ENROLLMENT (CAMPUS WIDE ID, CNUMBER, SECTION NUMBER, GRADE)
VALUES('484644345', 'CPSC 131', '12345', 'C');
INSERT INTO ENROLLMENT (CAMPUS WIDE ID, CNUMBER, SECTION NUMBER, GRADE)
VALUES('585654328', 'CPSC 131', '12345', 'A-');
INSERT INTO ENROLLMENT (CAMPUS WIDE ID, CNUMBER, SECTION NUMBER, GRADE)
VALUES('585654328', 'CPSC 121', '12347', 'B');
INSERT INTO ENROLLMENT (CAMPUS WIDE ID, CNUMBER, SECTION NUMBER, GRADE)
VALUES('585654328', 'MATH 150A', '12001', 'C-');
INSERT INTO ENROLLMENT (CAMPUS WIDE ID, CNUMBER, SECTION NUMBER, GRADE)
VALUES('967656321', 'CPSC 131', '12345', 'A+');
INSERT INTO ENROLLMENT (CAMPUS WIDE ID, CNUMBER, SECTION NUMBER, GRADE)
VALUES('967656321', 'CPSC 121', '12346', 'A-');
INSERT INTO ENROLLMENT (CAMPUS WIDE ID, CNUMBER, SECTION NUMBER, GRADE)
VALUES('967656321', 'MATH 150A', '12001', 'A+');
INSERT INTO ENROLLMENT (CAMPUS WIDE ID, CNUMBER, SECTION NUMBER, GRADE)
VALUES('967656321', 'MATH 150B', '12101', 'D+');
INSERT INTO ENROLLMENT (CAMPUS WIDE ID, CNUMBER, SECTION NUMBER, GRADE)
VALUES('787657327', 'MATH 150A', '12001', 'F');
```

```
- MINORS TABLE INSERTS
INSERT INTO MINORS (CAMPUS WIDE ID, DNUMBER)
VALUES('987654321', '2000000000');
INSERT INTO MINORS (CAMPUS WIDE ID, DNUMBER)
VALUES('484644345', '1000000000');
INSERT INTO MINORS (CAMPUS WIDE ID, DNUMBER)
VALUES('967656321', '1000000000');
-- PROFESSOR COLLEGE DEGREES TABLE INSERTS
INSERT INTO PROFESSOR COLLEGE DEGREES (PROFESSOR SSN, COLLEGE DEGREE)
VALUES('123456789', 'Computer Science');
INSERT INTO PROFESSOR COLLEGE DEGREES (PROFESSOR SSN, COLLEGE DEGREE)
VALUES('342481341', 'Mathematics');
INSERT INTO PROFESSOR COLLEGE DEGREES (PROFESSOR SSN, COLLEGE DEGREE)
VALUES('999999999', 'Mathematics');
-- PREREQUISITE COURSE TABLE INSERTS
INSERT INTO PREREQUISITE COURSE(CNUMBER, PREREQUISITE NUMBER)
VALUES('CPSC 131', 'CPSC 121');
INSERT INTO PREREQUISITE COURSE(CNUMBER, PREREQUISITE NUMBER)
VALUES('MATH 150B', 'MATH 150A');
-- SECTION MEETING DAYS TABLE INSERTS
INSERT INTO SECTION MEETING DAYS (CNUMBER, SECTION NUMBER, MEETING DAY)
VALUES('CPSC 131', '12345', 'Mon');
INSERT INTO SECTION MEETING DAYS (CNUMBER, SECTION NUMBER, MEETING DAY)
VALUES('CPSC 131', '12345', 'Wed');
INSERT INTO SECTION MEETING DAYS (CNUMBER, SECTION NUMBER, MEETING DAY)
VALUES('CPSC 121', '12346', 'Tues');
INSERT INTO SECTION MEETING DAYS (CNUMBER, SECTION NUMBER, MEETING DAY)
VALUES('CPSC 121', '12346', 'Thurs');
```

```
INSERT INTO SECTION_MEETING_DAYS(CNUMBER, SECTION_NUMBER, MEETING_DAY)

VALUES('CPSC 121', '12347', 'Thurs');

INSERT INTO SECTION_MEETING_DAYS(CNUMBER, SECTION_NUMBER, MEETING_DAY)

VALUES('CPSC 121', '12347', 'Fri');

INSERT INTO SECTION_MEETING_DAYS(CNUMBER, SECTION_NUMBER, MEETING_DAY)

VALUES('MATH 150A', '12001', 'Sat');

INSERT INTO SECTION_MEETING_DAYS(CNUMBER, SECTION_NUMBER, MEETING_DAY)

VALUES('MATH 150B', '12101', 'Mon');

INSERT INTO SECTION_MEETING_DAYS(CNUMBER, SECTION_NUMBER, MEETING_DAY)

VALUES('MATH 150B', '12101', 'Wed');

INSERT INTO SECTION_MEETING_DAYS(CNUMBER, SECTION_NUMBER, MEETING_DAY)

VALUES('MATH 150B', '12102', 'Fri');
```

SQL

QUERY #1

QUERY # 2

QUERY#3

QUERY # 4

PHP SCRIPTS

Index.html

```
<!doctype html>
<html lang="en-US">
<head>
  <meta charset="utf-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <title>CPSC 332 - Project 1</title>
  <link href="./dist/output.css" rel="stylesheet">
</head>
<body>
<div class="container">
<header>
   <div class="navbar">
       <a href="http://ecs.fullerton.edu/~cs332f26" class="btn btn-ghost normal-case</pre>
text-xl bg-cyan-400">HOME</a>
  </div>
</header>
<section class="title" id="title">
   <h2 class="title header text-6xl text-center py-2 pl-3">CSUF Database</h2>
  <h2 class="tagline text-2xl antialiased py-2 pl-7">Professors and Students
Information
 </section>
 <section class="input" id="input">
  <h2 class="input header1 text-2xl antialiased py-2 pl-2 pt-16">Professors:</h2>
  <div class="">
       <form action="./professors SSN.php" method="post">
          <label class="input-group py-4">
               <span>Social Security Number
               <input class="input input-bordered w-full max-w-xs" type="text" name =</pre>
"SSN" placeholder="Please input 9 digit SSN" required minlength="9">
          </label>
           <input class="button btn" type="submit" value="submit">
       </form>
       <form action="./student grades.php" method="post">
          <label class="input-group py-4">
               <span>Course Number</span>
               <input class="input input-bordered w-full max-w-xs" type="text" name =</pre>
"CNO" placeholder="e.g MATH 150A" required>
```

```
</label>
          <label class="input-group py-4">
              <span>Section Number
              <input class="input input-bordered w-full max-w-xs" type="text" name =</pre>
"SNO" placeholder="Please input Section #" required>
          <input class="button btn" type="submit" value="submit">
      </form>
  </div>
  <h2 class="input header2 text-2xl antialiased py-2 pl-2 pt-20">Students:</h2>
  <div class="input data2">
      <form action="./courselist.php" method="post">
          <label class="input-group py-4">
              <span>Course Number</span>
              <input class="input input-bordered w-full max-w-xs" type="text" name =</pre>
"CNO" placeholder="e.g MATH 150A" required>
          </label>
          <input class="button btn" type="submit" value="submit">
      <form action="./transcript.php" method="post">
          <label class="input-group py-4">
              <span>Campus Wide ID<span>
              <input class="input input-bordered w-full max-w-xs" type="text" name =</pre>
"CWID" placeholder="Please input Campus Wide ID" required>
          </label>
          <input class="button btn" type="submit" value="submit">
</section>
</div>
</body>
</html>
```

PHP Script # 1

```
<html>
<head>
<title>CPSC 332 - Project 1</title>
```

```
<link href="./dist/output.css" rel="stylesheet">
</head>
<body>
  <header>
      <div class="navbar">
          <a href="http://ecs.fullerton.edu/~cs332f26" class="btn btn-ghost normal-
case text-xl bg-cyan-400">HOME</a>
      </div>
  </header>
  <?php
      $SSN = $POST['SSN'];
      $dbServername = "mariadb";
      $dbUsername = "cs332f26";
      $dbPassword = "6Kqjr0YR";
      $dbName = "cs332f26";
      // set connection
      $con= mysqli connect($dbServername, $dbUsername, $dbPassword, $dbName);
      //check connection
      if (!$con) {
           die('Could not connect: ' . mysql_error());
  <?php
       $sql = "SELECT P.PNAME, C.NUMBER, C.TITLE, S.SECTION NUMBER, S.CLASSROOM,
S.BEGINNING TIME, S.ENDING TIME,
                       SELECT GROUP CONCAT (D. MEETING DAY SEPARATOR ' ')
                       FROM SECTION MEETING DAYS D
                       WHERE D.SECTION NUMBER=S.SECTION NUMBER
                   ) AS MEETING DAYS
               FROM PROFESSOR P, COURSE C, SECTION S
              WHERE P.SSN={$SSN} AND P.SSN=S.PROFESSOR SSN AND C.NUMBER=S.CNUMBER;";
      $result = $con->query($sql);
  <div class="container">
      <section class="title" id="title">
           <h1 class="title header text-xl pl-4">Result Output</h1>
```

```
</section>
    <section class="input" id="input">
    <div class="input_data1">
       <div class="table table-zebra w-full">
       <?php
          if ($result->num rows > 0) {?>
             <?php
                $row = $result->fetch assoc();
                echo "<h2 class='text-2xl antialiased py-4'>Hello, Professor
, $row["PNAME"], "<h2>";
       <thead>
             Course 
             Section 
             Course Title 
             Classroom 
             Meeting Days 
             Time
          </thead>
          <?php foreach($result as $row) { ?>
                   <?php echo $row["NUMBER"]; ?>
                   <?php echo $row["SECTION_NUMBER"]; ?>
                   <?php echo $row["TITLE"]; ?>
                   <?php echo $row["CLASSROOM"];?>
                   <?php echo $row["MEETING_DAYS"] ; ?>
                   <?php echo $row["BEGINNING TIME"]
                   . ' - '. $row["ENDING_TIME"] ;?>
                <?php } ?>
          </div>
       <?php }
          else {
             echo "0 results";
       <?php
```

PHP Script # 2

```
<html>
<head>
  <title>CPSC 332 - Project 1</title>
  <link href="./dist/output.css" rel="stylesheet">
</head>
<body>
  <header>
      <div class="navbar">
           <a href="http://ecs.fullerton.edu/~cs332f26" class="btn btn-ghost normal-</pre>
case text-xl bg-cyan-400">HOME</a>
      </div>
  </header>
  <?php
       $CNO = $ POST['CNO'];
       $CNO = strtoupper(json_encode($CNO)); // encode to JSON
       $SNO = $ POST['SNO'];
      $dbServername = "mariadb";
      $dbUsername = "cs332f26";
      $dbPassword = "6Kqjr0YR";
       $dbName = "cs332f26";
      $con= mysqli_connect($dbServername, $dbUsername, $dbPassword, $dbName);
      //check connection
      if (!$con) {
           die('Could not connect: ' . mysql_error());
   <?php
```

```
$sql = "SELECT L.GRADE, COUNT(R.CAMPUS_WIDE_ID) AS NUMBER_OF_STUDENTS
             FROM ENROLLMENT L
             LEFT JOIN (
                FROM ENROLLMENT
                 WHERE CNUMBER={$CNO} AND SECTION NUMBER={$SNO}) R
             ON L.CAMPUS WIDE ID=R.CAMPUS WIDE ID AND L.CNUMBER=R.CNUMBER AND
L.SECTION NUMBER=R.SECTION NUMBER
      GROUP BY L.GRADE;";
      $result = $con->query($sql);
      $CNO = json_decode($CNO); // decode CNO
<div class="container">
  <section class="title" id="title">
      <h2 class="text-2xl antialiased py-2 pl-4"> <?php echo "COURSE: ", $CNO ;?>
h2>
      <h2 class="text-2xl antialiased py-2 pl-4"> <?php echo "SECTION: ", $SNO ;?>
h2>
  </section>
  <section class="input" id="input">
      <div class="input data1">
         <div class="container2">
         <?php
         $nor =$result->num rows;
         if ($result->num rows > 0) {
             <thead>
                 Grade 
                 # of Students 
             </thead>
             <?php while($row = $result->fetch assoc()) { ?>
                        <?php echo $row["GRADE"] ;?>
                        <ppp echo $row["NUMBER OF STUDENTS"] ; ?>
```

PHP SCRIPT #3

```
<html>
<head>
  <title>CPSC 332 - Project 1</title>
  <link href="./dist/output.css" rel="stylesheet">
</head>
<body>
  <header>
      <div class="navbar">
          <a href="http://ecs.fullerton.edu/~cs332f26" class="btn btn-ghost normal-
case text-xl bg-cyan-400">HOME</a>
      </div>
  </header>
  <?php
      $CNO = $_POST['CNO'];
      $CNO = strtoupper(json_encode($CNO)); // encode to JSON
      $dbServername = "mariadb";
       $dbUsername = "cs332f26";
```

```
$dbPassword = "6Kqjr0YR";
      $dbName = "cs332f26";
      // set connection
      $con= mysqli connect($dbServername, $dbUsername, $dbPassword, $dbName);
      //check connection
      if (!$con) {
          die('Could not connect: ' . mysql_error());
  <?php
      $sq1 = "SELECT C.NUMBER, S.SECTION NUMBER, S.CLASSROOM, S.NUMBER OF SEATS,
                      SELECT GROUP CONCAT (D. MEETING DAY SEPARATOR ' ')
                      FROM SECTION MEETING DAYS D
                      WHERE D.SECTION NUMBER=S.SECTION NUMBER
                  ) AS MEETING DAYS,
                  S.BEGINNING TIME, S.ENDING TIME,
                  SELECT COUNT (*)
                  FROM ENROLLMENT E
                  WHERE E.SECTION NUMBER=S.SECTION NUMBER
                  ) AS TOTAL ENROLLED
              FROM COURSE C, SECTION S
              WHERE C.NUMBER={$CNO} AND C.NUMBER=S.CNUMBER;";
      $result = $con->query($sql);
<div class="container">
<section class="title" id="title">
  <h2 class="title header text-2xl antialiased py-2 pl-4">Result Output</h2>
</section>
<section class="input" id="input">
  <div class="input_data1">
      <div class="container2">
      <?php
      if ($result->num rows > 0) {?>
```

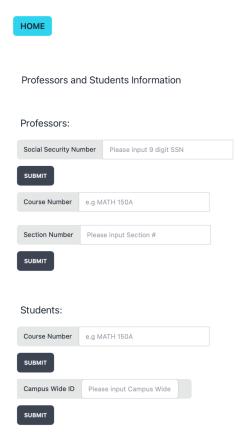
```
<thead>
             Course Number 
             Section Number 
             Classroom 
             Meeting Days 
             Time
             Total Enrolled / Seats Available
          </thead>
          <?php while($row = $result->fetch_assoc()) { ?>
             <?php echo $row["NUMBER"] ; ?>
             <?php echo $row["SECTION NUMBER"] ; ?>
             <?php echo $row["CLASSROOM"] ; ?>
             <?php echo $row["MEETING_DAYS"] ; ?>
             <?php echo $row["BEGINNING_TIME"]
                   . ' - '. $row["ENDING_TIME"] ;?>
             <?php echo $row["TOTAL ENROLLED"]
                   . ' / '. $row["NUMBER OF SEATS"] ;?>
             <?php } ?>
          <?php }
    else {
       echo "0 results";
    }?>
    <?php
    $con->close();
    </div>
 </div>
</section>
</div>
</body>
</html>
```

PHP SCRIPT #4

```
<html>
<head>
  <title>CPSC 332 - Project 1</title>
<body>
  <header>
      <div class="navbar">
           <a href="http://ecs.fullerton.edu/~cs332f26" class="btn btn-ghost normal-
case text-xl bg-cyan-400">HOME</a>
      </div>
  </header>
  <?php
    $CWID = $ POST['CWID'];
    $dbServername = "mariadb";
    $dbUsername = "cs332f26";
    $dbPassword = "6Kqjr0YR";
    $dbName = "cs332f26";
    // set connection
    $con= mysqli connect($dbServername, $dbUsername, $dbPassword, $dbName);
    //check connection
    if (!$con) {
        die('Could not connect: ' . mysql_error());
  <?php
       $sql = "SELECT S.FNAME, S.LNAME, C.NUMBER, C.TITLE, E.GRADE
               FROM ENROLLMENT E, STUDENT S, COURSE C
              WHERE E.CAMPUS_WIDE_ID={$CWID} AND E.CAMPUS_WIDE_ID=S.CAMPUS_WIDE_ID
AND C.NUMBER=E.CNUMBER;";
       $result = $con->query($sql);
<fieldset>
<legend>Student</legend>
      <?php
```

```
echo "Campus Wide ID: ", $CWID, "<BR>";
           if ($result->num_rows > 0) {?>
               <?php
                       $row = $result->fetch_assoc();
                       echo "<br/>br>Name: ", $row["FNAME"], " ", $row["LNAME"], "<br/>;
                <?php foreach($result as $row) {</pre>
                   echo "Course Number: ", $row["NUMBER"], "<br>";
                   echo "Course Title: ", $row["TITLE"], "<br>";
                   echo "Grade: ", $row["GRADE"], "<BR>", "<br>";
    <?php }
           else {
               echo "0 results", "<br>";
               echo "STUDENT NOT FOUND", "<br>";
   <?php
       $con->close();
</fieldset>
</div>
<button onclick="goBack()">Go Back</button>
<script>
function goBack() {
  window.history.back();
</script>
</body>
```

INTERFACES DEVELOPED



SAMPLE RUNS



CSUF Database

CSUF Database

Professors and Students Information

Professors:

SUBMIT

Social Security Number 123456789

Result Output

Hello, Professor John Smith

COURSE	SECTION	COURSE TITLE	CLASSROOM	MEETING DAYS	TIME
CPSC 131	12345	Data Structures	CS-101	Mon Wed	1:00 PM - 2:15 PM



CSUF Database

Professors and Students Information

Professors:

Social Security Number 9999999999

SUBMIT

HOME

Result Output

Hello, Professor Richard Sanchez

COURSE	SECTION	COURSE TITLE	CLASSROOM	MEETING DAYS	TIME
MATH 150B	12101	Calculus II	H-205	Mon Wed	9:00 AM - 10:50 AM
MATH 150B	12102	Calculus II	H-205	Fri	1:00 PM - 2:50 PM



CSUF Database

Professors and Students Information

Professors:		
Social Security Nu	mber	Please input 9 digit SSN
SUBMIT		
Course Number	MATH	1 150A
Section Number	1200	1
SUBMIT		

COURSE: MATH 150A

SECTION: 12001

GRADE	# OF STUDENTS
A+	1
A	1
A-	0
B+	0
В	0
B-	1
C+	0
С	0
C-	1
D+	0
D	1
D-	0
F	2
W	0

Run 4



CSUF Database

Professors and Students Information

Professors:

Social Security Number Please input 9 digit SSN					
SUBMIT					
Course Number	CPSC 131				
Section Number	12345				
SUBMIT					

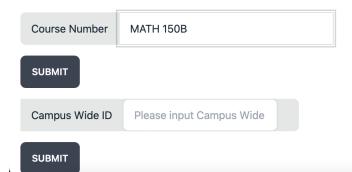
COURSE: CPSC 131

SECTION: 12345

GRADE	# OF STUDENTS
A+	1
A	0
A-	2
B+	0
В	0
B-	0
C+	0
С	1
C-	0
D+	0
D	0
D-	1
F	0
W	0

Run 5

Students:



Result Output

COURSE NUMBER	SECTION NUMBER	CLASSROOM	MEETING DAYS	TIME	TOTAL ENROLLED / SEATS AVAILABLE
MATH 150B	12101	H-205	Mon Wed	9:00 AM - 10:50 AM	2 / 30
MATH 150B	12102	H-205	Fri	1:00 PM - 2:50 PM	1/35

Run 6

Students:

Course Number CPSC 121

SUBMIT

HOME

Result Output

COURSE NUMBER	SECTION NUMBER	CLASSROOM	MEETING DAYS	TIME	TOTAL ENROLLED / SEATS AVAILABLE
CPSC 121	12346	CS-102	Tues Thurs	11:00 AM - 12:15 PM	3 / 40
CPSC 121	12347	CS-102	Thurs Fri	2:00 PM - 3:15 PM	3/30

Run 7

Students:

Course Number

e.g MATH 150A

SUBMIT

Campus Wide ID

967656321

SUBMIT

HOME

-Student-

Campus Wide ID: 967656321

Name: William Smith Course Number: CPSC 121

Course Title: Object-Oriented Programming

Grade: A-

Course Number: CPSC 131 Course Title: Data Structures

Grade: A+

Course Number: MATH 150A Course Title: Calculus I

Grade: A+

Course Number: MATH 150B Course Title: Calculus II

Grade: D+

Go Back

Run 8

Students:

Course Number e.g MATH 150A

SUBMIT

Campus Wide ID 181614121

HOME

-Student-

Campus Wide ID: 181614121

Name: Thomas Cruz

Course Number: CPSC 121

Course Title: Object-Oriented Programming

Grade: W

Course Number: MATH 150A

Course Title: Calculus I

Grade: D

Go Back