

# **Databases Final Project**

**By:**

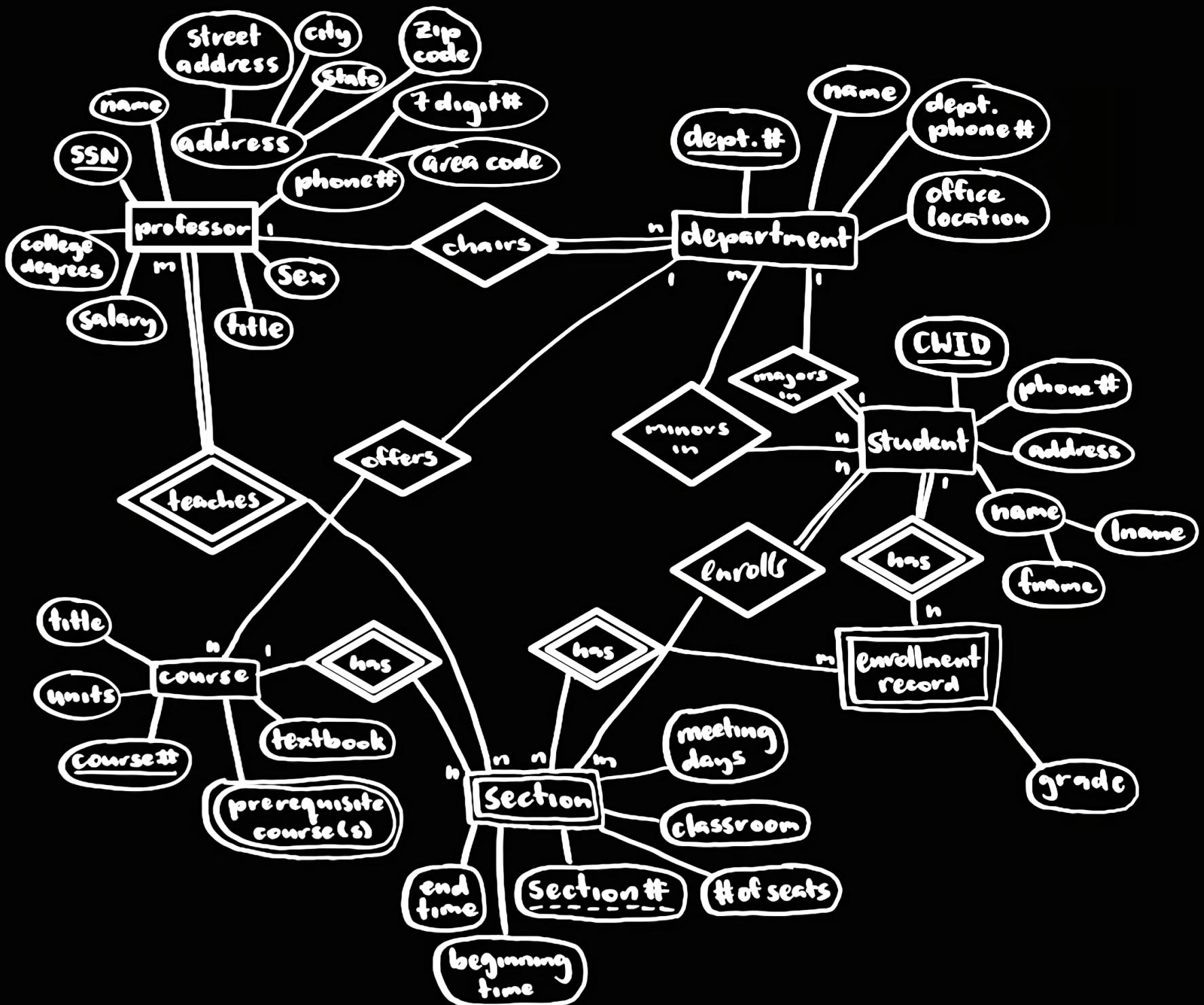
Eric Licea 0630

Kayden Vu 6438

Carson Wong 1407

**Account:** cs332t21

**Pass:** Ag525YP2



Professor

SSN | Name | College\_Degrees | Salary | Title | Sex | Area\_Code | 7\_Digit\_| Street\_Address | City | State | ZIP

Department

Dept. # | Name | Dept.\_Phone\_# | Office Location | Dept. Chair

Course

Course\_# | Title | Units | Textbook | Dept. #

Section

Section\_# | Beginning\_Time | End\_Time | Meeting\_Days | Classroom | #\_of\_Seats | Course #

Student

CWID | Fname | Lname | Phone\_# | Address | Major

Enrollment Record

Grade | Student\_CWID

Teaches

Professor\_SSN | Section #

Minors\_In

Student\_CWID | Department #

Student\_Enrolled\_In\_Section

Student\_CWID | Section #

Section\_Enrollment\_Record

Section\_# | Grade

Prerequisite\_Courses

Course\_# | Courses

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <link rel="stylesheet" href="style.css" />
    <title>Snuggies Test</title>
</head>
<body>
    <header class="header">
        <div class="hero">
            
            <h1>Database Final Project</h1>
        </div>
    </header>
    <div class="data-box">
        <div class="professor">
            <div class="form-box login">
                <form action="professor.php" method="post">
                    <h2>Professor's</h2>
                    <div class="input-box">
                        <label for="SSN">SSN</label><br />
                        <input type="number" id="SSN" name="SSN" required /><br />
                        <button type="submit">Search</button>
                    </div>
                </form>
                <h2>Or</h2>
                <form action="professor2.php" method="post">
                    <div class="input-box">
                        <label for="CNo">Course Number</label><br />
                        <input type="number" id="CNo" name="CNo" required /><br />
                        <label for="SNo">Section Number</label><br />
                        <input type="number" id="SNo" name="SNo" required /><br />
                        <button type="submit">Search</button>
                    </div>
                </form>
            </div>
        </div>
        <div class="student">
            <div class="form-box login">
                <form action="student.php" method="post">
                    <h2>Student's</h2>
                    <div class="input-box">
                        <label for="CNo">Course Number</label><br />
                        <input type="number" id="CNo" name="CNo" required /><br />
                        <button type="submit">Search</button>
                    </div>
                </form>
                <form action="student2.php" method="post">
                    <h2>Or</h2>
                    <div class="input-box">
                        <label for="CWID">CWID</label><br />
                        <input type="number" id="CWID" name="CWID" required /><br />
                        <button type="submit">Search</button>
                    </div>
                </form>
            </div>
        </div>
    </div>
</body>
</html>
```

```
***** DDL *****
*****Professor Table*****
```

```
Create Table Professors (
    SSN INT(9) Primary Key,
    Name varchar(50) NOT NULL,
    Sex varchar(1) NOT NULL,
    Title varchar(50) NOT NULL,
    Degrees varchar(50) NOT NULL,
    Salary INT(7) NOT NULL,
    Street varchar(100) NOT NULL,
    City varchar(100) NOT NULL,
    State varchar(20) NOT NULL,
    ZipCode INT(5) NOT NULL,
    AreaCode INT(3) NOT NULL,
    Phone INT(7) NOT NULL
);

Insert Into Professors (SSN, Name, Sex, Title, Degrees, Salary, Street, City, State, ZipCode, AreaCode, Phone)
Values
(420696969, 'Juwana Mann', 'F', 'Coach', 'Basketball', 80000, '1337 Baller St.', 'Chicago', 'Illinois', 42069, 800, 4387358),
(123456789, 'Charlie Dinkum','M','Zoo Man','Zoogist', 35000, '57 Sahara Dr', 'Tampa', 'Florida', 99950, 771, 9646262),
(666341337, 'Harry Bearass','M', 'Pet Detective','Zoogist', 250000, '500 Treehouse Ln', 'Bakersfield', 'California', 77298, 248, 4345508);
```

```
***** Departments Table *****
```

```
Create Table Departments (
    DNo INT(4) Primary Key,
    Name varchar(50) NOT NULL,
    Telephone varchar(13) NOT NULL,
    Office varchar(100) NOT NULL,
    Chair varchar(50) NOT NULL
);

Insert Into Departments (Dno, Name, Telephone, Office, Chair)
Values
(1000,'Basketball','(657)278-3700','Department of Ballers 800,N. State College Blvd Fullerton, CA 92834','Juwana Mann'),
(1100,'Zoogist','(657)278-7168','Department of Zoo Peoples 800 N. State College Blvd Fullerton, CA 92834','Harry Bearass');
```

```
***** Students Table *****
```

```
Create Table Students (
    CWID INT(9) Primary Key,
    FirstN varchar(25) NOT NULL,
    LastN varchar(25) NOT NULL,
    Addr varchar(100) NOT NULL,
    Phone varchar(13) NOT NULL
);

Insert Into Students (Cwid, FirstN, LastN, Addr, Phone)
Values
(550012108,'Gumtu','Spottybrain','8721 Leatherwood Street Anaheim, CA 38016','(657)217-7070'),
(957604797,'Beanieberry','Wiggleworth','7715 Saxon Street Fullerton, CA 38766','(657)278-2812'),
(848432208,'Gummoo','Chewhair','20 Fairfield Court Marcus Hook, PA 19061','(657)378-5057'),
(776684061,'Binbuns','Antball','98 Hilltop Street Lynchburg, VA 24502','(657)378-4587'),
(602204880,'Monibee','Blubbershine','14 Bay Ave. Wilmette, IL 60091','(689)338-4587'),
(820029164,'Slugbag','Spottygold','9512 Boston St. Camas, WA 98607','(689)338-5687'),
(232391347,'Poorbuns','Beanieton','36 Belmont Road Fair Lawn, NJ 07410','(689)338-5687'),
(462584182,'Zoobo','Beaniehall','9259 North Lincoln Road Lakeland, FL 33801','(771)561-1234');
```

\*\*\*\*\*Courses Table \*\*\*\*\*

```
Create Table Courses (
    CNo INT(3) Primary Key,
    Title varchar(50) NOT NULL,
    TextBook varchar(50),
    Units INT(1) NOT NULL,
    PreReq varchar(100)
);
```

```
Insert Into Courses (Cno, Title, TextBook, Units, PreReq)
```

```
Values
```

```
(024,'Baller 101',NULL,3,NULL),
(051,'Schooling 101',NULL,3,NULL),
(001,'Animal Care 101','Da Care of the Wild',3,NULL),
( 007, 'Animal Behaviour 104','Essance of a Pet Detective',3,'Animal Care 101');
```

\*\*\*\*\* Sections Table \*\*\*\*\*

```
Create Table Sections (
    SNo INT(2) NOT NULL,
    CNo INT(3) NOT NULL,
    SSN INT(9) NOT NULL,
    Classroom varchar(50) NOT NULL,
    Seats int(2) NOT NULL,
    MeetingDays varchar(50) NOT NULL,
    StartTime varchar(10) NOT NULL,
    EndTime varchar(10) NOT NULL,
    PRIMARY KEY (SNo),
    FOREIGN KEY (CNo) REFERENCES Courses(CNo),
    FOREIGN KEY (SSN) REFERENCES Professors(SSN)
);
```

```
Insert Into Sections (SNo, CNo, SSN, Classroom, Seats, MeetingDays, StartTime, EndTime)
```

```
Values
```

```
(11,024,420696969,'Basketball Gym',40,'Mon Wen','8:00 AM','10:00 AM'),
(12,024,420696969,'Basketball Gym',40,'Tue Thu','8:00 AM','10:00 AM'),
(13,051,420696969,'Basketball Gym',25,'Mon','4:00 PM','7:00 PM'),
(14,051,420696969,'Basketball Gym',25,'Fri','4:00 PM','7:00 PM'),
(15,051,420696969,'Basketball Gym', 25, 'Sat', '9:00 AM', '12:00 PM'),
(60,001,123456789,'Zoogist 403', 25, 'Mon Wed', '9:00 AM', '12:00 PM'),
(62,001,123456789,'Zoogist 202', 25, 'Mon Wed', '2:00 PM', '3:45 PM'),
(61,001,123456789,'Zoogist 202',25,'Tue Thu','9:00 AM','12:00 PM'),
(70,007,666341337,'Zoo Gym',30,'Tue','9:00 AM','12:00 PM'),
(71,007,666341337,'Zoo Gym',30,'Thu','9:00 AM','12:00 PM');
```

## \*\*\*\*\* Grades Table \*\*\*\*\*

```
Create Table Grades (
    Grade varchar(2) NOT NULL,
    CWID INT(9) NOT NULL,
    SNo INT(9) NOT NULL,
    FOREIGN KEY (Cwid) REFERENCES Students(Cwid),
    FOREIGN KEY (SNo) REFERENCES Sections(SNo)
);
```

```
Insert Into Grades (Grade, CWID, SNo)
```

```
Values
("B+",550012108,62),
("B-",550012108,70),
("C",550012108,11),
("A",957604797,60),
("A",957604797,71),
("C",957604797,14),
("B",848432208,11),
("B+",848432208,15),
("C-",848432208,70),
("A",776684061,12),
("A+",776684061,14),
("D",776684061,61),
("D+",602204880,11),
("F",602204880,13),
("B",602204880,60),
("A-",820029164,12),
("A",820029164,15),
("C+",820029164,71),
("C-",232391347,13),
("C+",232391347,62),
("C+",232391347,70),
("B",462584182,12),
("B",462584182,14),
("C+",462584182,60),
("D",462584182,71);
```

\*\*\*\*\* SQL Querie \*\*\*\*\*

For Professor Part A:

```
Select Professors.Name, Courses.Title, Sections.Classroom, Sections.MeetingDays, Sections.StartTime, Sections.EndTime
From ((Sections
Inner Join Professors On Professors.SSN = Sections.SSN)
Inner Join Courses On Courses.CNo = Sections.CNo)
Where Sections.SSN = $SSN;
```

For Professor Part B:

```
Select
Sum(Grade = 'A+') As 'A+'
,Sum(Grade = 'A') As 'A'
,Sum(Grade = 'A-') As 'A-'
,Sum(Grade = 'B+') As 'B+'
,Sum(Grade = 'B') As 'B'
,Sum(Grade = 'B-') As 'B-'
,Sum(Grade = 'C+') As 'C+'
,Sum(Grade = 'C') As 'C'
,Sum(Grade = 'C-') As 'C-'
,Sum(Grade = 'D+') As 'D+'
,Sum(Grade = 'D') As 'D'
,Sum(Grade = 'D-') As 'D-'
,Sum(Grade = 'F-') As 'F'
From Grades
Where SNo = $SNo;
```

For Student Part A:

```
Select Sections.SNo, Sections.Classroom, Sections.MeetingDays, Sections.StartTime, Sections.EndTime, count(Grades.SNo) As 'Count'
From ((Sections
Inner Join Courses On Courses.CNo = Sections.CNo)
Inner Join Grades On Grades.SNo = Sections.SNo)
Where Courses.CNo = $CNo
Group By Sections.SNo;
```

For Student Part B:

```
Select Sections.SNo, Courses.Title, Grades.Grade
From ((Sections
Inner Join Courses On Courses.CNo = Sections.CNo)
Inner Join Grades On Grades.SNo = Sections.SNo)
Where Grades.CWID = $CWID;
```

```
***** Professor Part A*****
<!DOCTYPE html>
<html lang="en">
<head></head>
<body>
<?php

$link = mysqli_connect('mariadb', 'cs332t21', 'Ag525YP2','cs332t21');
if (!$link) {
    echo "<p>Mest Up :(</p>";
    die('Could not connect: ' . mysql_error());
}

$SSN = $_POST['SSN'];

$query = "Select Professors.Name, Courses.Title, Sections.Classroom, Sections.MeetingDays, Sections.StartTime, Sections.EndTime
        From ((Sections
        Inner Join Professors On Professors.SSN = Sections.SSN)
        Inner Join Courses On Courses.CNo = Sections.CNo)
        Where Sections.SSN = $SSN;";
$result = $link->query($query);
$nor = $result->num_rows;
?>






```

```
<!DOCTYPE html>
<body>
<?php
$link = mysqli_connect('mariadb', 'cs332t21', 'Ag525YP2','cs332t21');
if (!$link) {
    echo "<p>Mest Up :(</p>";
    die('Could not connect: ' . mysql_error());
}
$CNo = $_POST['CNo'];
$SNo = $_POST['SNo'];
if (isset($CNo) and isset($SNo)){
    $query = "Select
        Sum(Grade = 'A+') As 'A+'
        ,Sum(Grade = 'A') As 'A'
        ,Sum(Grade = 'A-') As 'A-'
        ,Sum(Grade = 'B+') As 'B+'
        ,Sum(Grade = 'B') As 'B'
        ,Sum(Grade = 'B-') As 'B-'
        ,Sum(Grade = 'C+') As 'C+'
        ,Sum(Grade = 'C') As 'C'
        ,Sum(Grade = 'C-') As 'C-'
        ,Sum(Grade = 'D+') As 'D+'
        ,Sum(Grade = 'D') As 'D'
        ,Sum(Grade = 'D-') As 'D-'
        ,Sum(Grade = 'F-') As 'F' From Grades Where SNo = $SNo;";
$result = $link->query($query);

$query_2 = "Select Title From Courses Where CNo = $CNo;";
$result_2 = $link->query($query_2);
?>
<table class="table">
<?php $row_2 = $result_2->fetch_assoc(); ?>
<h2>Grades From Your <?php echo $row_2['Title']?> Section <?php echo $SNo ?></h2>
<tr>
<th>A+</th>
<th>A</th>
<th>A-</th>
<th>B+</th>
<th>B</th>
<th>B-</th>
<th>C+</th>
<th>C</th>
<th>C-</th>
<th>D+</th>
<th>D</th>
<th>D-</th>
<th>F</th>
</tr>
<?php $row = $result->fetch_assoc(); ?>
<tr>
<td><?php echo $row['A+']; ?></td>
<td><?php echo $row['A']; ?></td>
<td><?php echo $row['A-']; ?></td>
<td><?php echo $row['B+']; ?></td>
<td><?php echo $row['B']; ?></td>
<td><?php echo $row['B-']; ?></td>
<td><?php echo $row['C+']; ?></td>
<td><?php echo $row['C']; ?></td>
<td><?php echo $row['C-']; ?></td>
<td><?php echo $row['D+']; ?></td>
<td><?php echo $row['D']; ?></td>
<td><?php echo $row['D-']; ?></td>
<td><?php echo $row['F']; ?></td>
</tr>
</table>
<?php } ?>
<?php
$link->close();
$result->free_result();
?>
</body>
</html>
```

```
***** Student Part A *****

<!DOCTYPE html>
<html lang="en">
<body>
<?php

$link = mysqli_connect('mariadb', 'cs332t21', 'Ag525YP2','cs332t21');
if (!$link) {
    echo "<p>Mest Up :(</p>";
    die('Could not connect: ' . mysql_error());
}

$CNo = $_POST['CNo'];

$query = "Select Sections.SNo, Sections.Classroom, Sections.MeetingDays, Sections.StartTime, Sections.EndTime, count(Grades.SNo) As 'Count'
        From ((Sections
        Inner Join Courses On Courses.CNo = Sections.CNo)
        Inner Join Grades On Grades.SNo = Sections.SNo)
        Where Courses.CNo = $CNo
        Group By Sections.SNo;";
$result = $link->query($query);
$nor = $result->num_rows;
?>






```

\*\*\*\*\* Student Part B \*\*\*\*\*

```
<!DOCTYPE html>
<html lang="en">
<body>
    <?php

        $link = mysqli_connect('mariadb', 'cs332t21', 'Ag525YP2','cs332t21');
        if (!$link) {
            echo "<p>Mest Up :(</p>"; 
            die('Could not connect: ' . mysql_error());
        }

        $CWID = $_POST['CWID'];

        $query = "Select Sections.SNo, Courses.Title, Grades.Grade
                  From ((Sections
                          Inner Join Courses On Courses.CNo = Sections.CNo)
                          Inner Join Grades On Grades.SNo = Sections.SNo)
                          Where Grades.CWID = $CWID;";
        $result = $link->query($query);
        $nor = $result->num_rows;
    ?>

    <table class="table">
        <h2>Current Classes</h2>
        <tr>
            <th>Section</th>
            <th>Class</th>
            <th>Grade</th>
        </tr>
        <?php for ($i=0; $i < $nor; $i++) { 
            $row = $result->fetch_assoc(); ?>
            <tr>
                <td><?php echo $row['SNo']; ?></td>
                <td><?php echo $row['Title']; ?></td>
                <td><?php echo $row['Grade']; ?></td>
            </tr>
            <?php } ?>
        </table>
        <?php
            $result->free_result();
            $link->close();
        ?>
    </body>
</html>
```

## Screenshot Section

1. Home Page with sample inputs.

2. Professor Part A

3. Professor Part B

4. Student Part A

5. Student Part B



# Database Final Project

Professor's

SSN

420696969

Search

Or

Course Number

024

Section Number

11

Search

Student's

Course Number

024

Search

Or

CWID

550012108

Search

## Current Classes

Name	Title	Classroom	Meeting	Start Time	End Time
Juwana Mann	Baller 101	Basketball Gym	Mon Wen	8:00 AM	10:00 AM
Juwana Mann	Baller 101	Basketball Gym	Tue Thu	8:00 AM	10:00 AM
Juwana Mann	Schooling 101	Basketball Gym	Mon	4:00 PM	7:00 PM
Juwana Mann	Schooling 101	Basketball Gym	Fri	4:00 PM	7:00 PM
Juwana Mann	Schooling 101	Basketball Gym	Sat	9:00 AM	12:00 PM

# Grades From Your Baller 101 Section 11

A+	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F
0	0	0	0	1	0	0	1	0	1	0	0	0

## Current Classes

Section	Classroom	Meeting	Start Time	End Time	Students Enrolled
11	Basketball Gym	Mon Wen	8:00 AM	10:00 AM	3
12	Basketball Gym	Tue Thu	8:00 AM	10:00 AM	3

## Current Classes

Section	Class	Grade
62	Animal Care 101	B+
70	Animal Behaviour 104	B-
11	Baller 101	C