

# CIS 344 Final Project: Teachers' Portal

## MySQL To-Do (60) Points

**1. (10 points) Create a database named teachers\_portal.**

```
CREATE SCHEMA `teachers_portal` ;
```

**2. Use the previously created database**

```
USE `teachers_portal` ;
```

**3. (10 points) Create a table named students, with the following attributes:**

- a. studentId int not null unique auto\_increment
- b. studentName varchar (45) Not Null
- c. enrolledInCourseID int default 1
- d. grade float null

**Make studentId a primary key**

```
CREATE TABLE students (  
    studentId INT NOT NULL AUTO_INCREMENT,  
    studentName VARCHAR(45) NOT NULL,  
    enrolledInCourseID INT DEFAULT 1,  
    grade FLOAT,  
    PRIMARY KEY (studentId)  
);
```

**4. (10 points) Make a table named courses if it does not exist,  
with the following attributes:**

- a. courseId int not null unique auto\_increment
- b. courseName varchar (45) not null

Make courseId a primary key

```
CREATE TABLE courses (  
    courseId INT NOT NULL AUTO_INCREMENT,  
    courseName VARCHAR(45) NOT NULL,  
    PRIMARY KEY (courseId)  
);
```

**5. (10 Points) Populate the table students with the following values:**

("Maria Jozef", 1, 90), ("Linda Jones", 2, 89), ("John McGrail", 1, 98), ("Patty Luna", 2, 78)

```
INSERT INTO students (studentName, enrolledInCourseID, grade)
VALUES
    ("Maria Jozef", 1, 90),
    ("Linda Jones", 2, 89),
    ("John McGrail", 1, 98),
    ("Patty Luna", 2, 78);
```

**6. (10 points) Populate the table courses with the following values:**

```
("Database Design"), ("Calculus"), ("Physics I")
```

```
INSERT INTO courses (courseName)
VALUES
    ("Database Design"),
    ("Calculus"),
    ("Physics I");
```

**7. (10 points) Create a stored Procedure named studentsWithGrade() to select the left join of table students with courses on attributes enrolledInCourseID = courseID.**

```
DELIMITER //
CREATE PROCEDURE studentsWithGrade()
BEGIN
    SELECT * FROM students
    LEFT JOIN courses ON students.enrolledInCourseID = courses.courseId;
END //
```

```
DELIMITER ;  
CALL studentsWithGrade();
```