

University of Bahrain
Information Technology College
Computer Science Department
ITCS 333 – Assignment 3

Assume you have **StudentsDB** database stored in MySQL server that contains the following 2 tables as follows:

Table 1: Students

Sid	int, Primary Key, Auto Increment
UniversityID	varchar(8), Unique
Name	varchar(50)
Major	varchar(50)

Table 2: Grades

Gid	int, Primary Key, Auto Increment
Sid	int, Foreign Key
CourseCode	varchar(10)
Credits	int
CourseGrade	varchar(4)

***** Note: Students must use PDO to access MySQL DB, MySQLi isn't allowed *****

Implement the following PHP scripts as required below:

- displayStudentGrades.php:** the script should display student's name and major. In addition, all courses codes with their grades should be displayed in HTML table followed by its Cumulative GPA, Total Credits Passed and Total Credits Registered at the bottom of the TABLE. Highlight the course row by red if it's F grade. The studentID is received using HTTP GET method from an HTML form.
- addnewStudentwithgrades.php:** the script should obtain all the required student details using HTML form including courses codes, credits and grades (Tip: ask the user how many courses he want to enter first and then design a dynamic form asking for user and course details). **YOU MUST USE TRANSACTION AND PREPARED STATEMENT** for inserting using records. All inputs must be validated using PHP Regular Expressions (JavaScript or HTML5 validations aren't allowed).
- Login.php:** Extend your website by adding another table to your database called users, then write a PHP program, so that only admin user's type can access the programs defined in Part 1 and 2, and only regular users type can access the program defined in Part 1. (Tip: use session to ensure authorization)
- UploadStudentPictures.php:** Add new database's table called studentPictures in your DB. The table should contain the following columns (id (int-Auto Increment-Primary), Sid (int-Foreign Key), PicFilename (varchar(100))). Write a PHP script that allows the student to upload any number of pictures and store the picture filename in the defined DB's table. In addition, the script should allow the student to view all of his pictures. This program is only accessible when the student login successfully. Note: **You program should create a unique filename before saving it into the server.**