PeopleCert Education

Coding Bootcamp

Individual Project Brief

During the development of this project you need to do the implementation of a private school structure.

Below there is the design that you need to do the implementation upon.

Design of a Private School Structure

Course	Trainer
-title -stream -type -start_date -end_date	-firstName -lastName -subject
+getTitle +setTitle +getStream +setStream +getType +setType +getStartDate +setStartDate +getEndDate +setEndDate	+getFirstName +setFirstName +getLastName +setLastName

Student	Assignment
-firstName	-title
-lastName	-description
-dateOfBirth	-subDateTime
-tuitionFees	-oralMark
	-totalMark
+getFirstName +setFirstName	+getTitle +setTitle
+getLastName +setLastName	+getDescription +setDescription
+getDateOfBirth	+getSubDateTime +setSubDateTime
+setDateOfBirth	+getOralMark +setOralMark
+getFees +setFees	+getTotalMark +setTotalMark

This private school supports multiple courses.

Each course can have multiple trainers, students and assignments.

For example,

the Course CB8 has full time Java and C# and part time Java and C#.

The CB8 course starts on 1/1/2019 and ends at 31/3/2019.

On this CB8 course there are 20 students enrolled and 8 trainers that teach.

During the bootcamp the students need to submit five (5) assignments and two (2) projects, one individual and one team project.

The application that you will build needs to hold in a database multiple courses along with the enrolled students, the trainers that teach the subjects and the assignments / projects that the students need to submit during the course duration.

Your program must be able to output on different web pages the following:

- A list of all the students [5 marks]
- A list of all the trainers [5 marks]
- A list of all the assignments [5 marks]
- A list of all the courses [5 marks]

1. Design the ERD of your system and verify it through an online tool such as https://sqldbm.com/ (it requires a free account) [15 marks]
2. Identify any other tables you need based on your implementation and construct them [15 marks]
3. Make the schema of a database that can keep data for the main entities of the assignment and name the tables as: Students, Trainers, Assignments, Courses [15 marks]
4. Populate the tables of the database with enough data [10 marks]
5. You also need to produce a small project that [15 marks]
    a. makes a connection to the database and executes the above sql queries [5 marks]
    b. makes a connection to the database and inserts input data from the keyboard to the following tables,
        i. students [5 marks]
        ii. trainers [5 marks]

Please submit your work within Teams and zip the solution / project to a zipped file named for example,

pasparakis_george_individual.zip