Coding Bootcamp

Individual Project – PART B

Following PART A you need to implement the below functionality:

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 need to produce sql queries that output the following [19 marks in total]:
    - A list of all the students [2 marks]
    - A list of all the trainers [2 marks]
    - A list of all the assignments [2 marks]
    - A list of all the courses [2 marks]
    - All the students per course [2 marks]
    - All the trainers per course [2 marks]
    - All the assignments per course [2 marks]
    - All the assignments per course per student [2 marks]
    - A list of students that belong to more than one courses [3 marks]
6. You also need to produce a small project that [26 marks]
    a. makes a connection to the database and executes the above sql queries [9 marks]

b. makes a connection to the database and inserts input data from the keyboard to the following tables,
   i. students [2 marks]
   ii. trainers [2 marks]
   iii. assignments [2 marks]
   iv. courses [2 marks]
   v. students per course [3 marks]
   vi. trainers per course [3 marks]
   vii. assignments per student per course [3 marks]

You need to submit all the produced files in a zip file named by your_name_individual_partb.zip