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## Coding Bootcamp

### Individual Project Brief – PART B

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Following PART A you need to implement the following functionality:

1. Make a draft design 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]
2. Identify any other tables you need based on your implementation and construct them [15 marks]
3. Design the ERD of your system and verify it through an online tool such as <https://sqldb.com/> (it requires a free account) [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]