**Database Fundamentals**

**Lab Sheet 5**

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| --- | --- | --- | --- | --- | --- |
| Table: Student | | |  | Table: Course | |
| **StudentID** | **studentName** | **DateOfBirth** |  | **Course Code** | **CourseName** |
| B00052133 | John Murphy | 1980-01-01 |  | BN001 | Engineering |
| B5123521 | Jane Murphy | 1972-05-12 |  | BN002 | Computing |

1. Create a student table and a course table with the following defintions:

Student (studentID(PK) length 9, studentName length 100, dateOfDirth datetime)

Course (courseCode(PK) length 5, course name length 100)

2. Alter the student table to add a course code attribute to the student table.

3. Alter the student table to define course code as a foreign key.

4. Alter the student table to add the appropriate columns to record a student’s address. (Street name, town, county etc.))

5. Alter the student table to change the length of student name to 70.

6. Drop the date of birth column from the student table.

7. Add an age column to the student table, of type INT with a default value of 18.

8. Add a constraint to the student table ensuring a student’s age is 17 or older.

9. Write the Insert commands to insert three rows of data into each table. Ensure one of the courses is BN002. **NB**: Add data to the course table first, as rows in the student table need to include a valid primary key from the course table.

10. Update the student table to place each student in course BN002.

**Note: When you run this query, you may get an error message instructing you to disable dafe mode**

**To disable safe mode, goto Edit/Preferences/Sql Editor and uncheck the option to forbid update and delete statement without a where clause. You need to restart Workbench for the new preference setting to take effect.** \*/