Q2. Supply suitable CREATE TABLE statements to implement the diagram you in Q1. Care should be taken to include the necessary foreign key constraints t the various relationship types in your above diagram.

For each table you create, both the SQL statement(s) and a screenshot of the creation should be supplied (showing any foreign key constraints).

```
mysql> DROP DATABASE IF EXISTS UniversityTimetable_DB;
Query OK, 0 rows affected, 1 warning (0.00 sec)

mysql> DROP DATABASE IF EXISTS UniversityTimetableDB;
Query OK, 8 rows affected (0.05 sec)
```

```
mysql> CREATE DATABASE UniversityTimetableDB;
Query OK, 1 row affected (0.00 sec)
```

```
mysql> USE UniversityTimetableDB;
Database changed
```

```
mysql> DROP TABLE IF EXISTS `Program`;
Query OK, 0 rows affected, 1 warning (0.00 sec)
```

```
mysql> CREATE TABLE `Program` (
-> `program_id` VARCHAR(8) NOT NULL PRIMARY KEY,
-> `name` VARCHAR(10) NOT NULL,
-> `department` VARCHAR(8) NOT NULL
->
-> ;
Query OK, 0 rows affected (0.24 sec)
```

```
mysql> DROP TABLE IF EXISTS `Lecturer`;
Query OK, 0 rows affected, 1 warning (0.00 sec)
mysql > CREATE TABLE `Lecturer` (
         `lecturer_id` INT(8) NOT NULL PRIMARY KEY,
         `lec_name` VARCHAR(10) NOT NULL,
        `office_number` VARCHAR(8) NOT NULL,
         `dept` VARCHAR(10) NOT NULL,
         `email`VARCHAR(20)NOT NULL
mysql> DROP TABLE IF EXISTS `Student`;
Query OK, 0 rows affected, 1 warning (0.00 sec)
mysql > CREATE TABLE `Student` (
   -> `student_id` INT(8) NOT NULL PRIMARY KEY,
-> `name` VARCHAR(20) NOT NULL,
   -> `date_of_birth` DATE NOT NULL,
   -> `program_id` VARCHAR(8) NOT NULL,
   -> `date_registered`DATETIME NOT NULL,
   -> FOREIGN KEY (program_id) REFERENCES Program(program_id)
mysql > DROP TABLE IF EXISTS `Tutor`;
Query OK, 0 rows affected, 1 warning (0.00 sec)
mysql > CREATE TABLE `Tutor` (
   -> `tutor_id` INT(8) NOT NULL PRIMARY KEY,
        `name` VARCHAR(20) NOT NULL,
   -> `program_id` VARCHAR(8) NOT NULL,
   -> FOREIGN KEY (program_id) REFERENCES Program(program_id)
```

```
mysql > DROP TABLE IF EXISTS `Modules`;
Query OK, 0 rows affected, 1 warning (0.00 sec)
       `mod_name` VARCHAR(20) NOT NULL,
`lecturer_id` INT(8) NOT NULL,
   -> FOREIGN KEY (lecturer_id) REFERENCES Lecturer(lecturer_id)
Query OK, 0 rows affected (0.09 sec)
mysql > DROP TABLE IF EXISTS `Lecture`;
Query OK, 0 rows affected, 1 warning (0.00 sec)
mysql > CREATE TABLE `Lecture` (
    -> `lecture_id` INT(8) NOT NULL PRIMARY KEY,
        `room` VARCHAR(8) NOT NULL,
`date` DATE NOT NULL,
`time` TIME NOT NULL,
        `lecturer_id`INT(8)NOT NULL,
    -> FOREIGN KEY (lecturer_id) REFERENCES Lecturer(lecturer_id)
Query OK, 0 rows affected (0.05 sec)
mysql> DROP TABLE IF EXISTS `ProgramModules`;
Query OK, 0 rows affected, 1 warning (0.00 sec)
mysql> CREATE TABLE `ProgramModules` (
   -> `program_id` VARCHAR(8)NOT NULL,
    -> `module_code `VARCHAR(8)NOT NULL,
   -> FOREIGN KEY (program_id) REFERENCES Program(program_id),
   -> FOREIGN KEY (module_code) REFERENCES Modules(module_code),
   -> PRIMARY KEY(program_id, module_code)
Query OK, 0 rows affected (0.06 sec)
```

## mysql> DROP TABLE IF EXISTS `ModulesLectures`; Query OK, 0 rows affected, 1 warning (0.00 sec)

```
mysql> CREATE TABLE `ModulesLectures` (
    -> `module_code`VARCHAR(8)NOT NULL,
    -> `lecture_id`INT(8)NOT NULL,
    -> FOREIGN KEY (module_code) REFERENCES Modules(module_code),
    -> FOREIGN KEY (lecture_id) REFERENCES Lecture(lecture_id),
    -> PRIMARY KEY(lecture_id, module_code)
    -> );
Query OK, 0 rows affected (0.05 sec)
```

3 rows in set (0.00 sec)