Rajarata University of Sri Lanka
Faculty of Applied Sciences
Department of Computing
ICT 1407– Database System
COM 1302 -Database Management System
Practical 04

1. **Create a text file. Name it as "SQLCode_1.txt"**
2. **Open the text file with notepad (or any other text editor)**
3. **Type the following commands in the text file.**

```
DROP DATABASE EMPLOYEE;
CREATE DATABASE EMPLOYEE;
USE EMPLOYEE;
TEE D:\DBMS Practical\Session4.txt
```

4. **Save the textfile.**
5. **Open the Command prompt.**
6. **Log in to MySQL server.**
7. **Type source path to the text file SQLCode_1.txt**
   Eg: source D:\DBMSPractical\SQLCode_1.txt

8. **Check for the results after execution.**
9. **Create another text file. Name it as "SQLCode_2.txt"**
10. **Open the text file with notepad (or any other text editor)**
11. **Type the following commands in the text file**.

```
CREATE TABLE EMPLOYEE(
Fname VARCHAR(15) NOT NULL,
Minit CHAR,
Lname VARCHAR(15) NOT NULL,
SSN CHAR(9) NOT NULL,
Bdate DATE,
Address VARCHAR(30) DEFAULT 'Colombo',
Sex CHAR,
Salary DECIMAL(10,2),
Dno INT NOT NULL
) ;


CREATE TABLE DEPARTMENT (
Dname VARCHAR(15) NOT NULL,
Dnumber INT NOT NULL,
ManagerSSN CHAR(9) NOT NULL
);
```

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12. Write the ALTER TABLE query for the above two tables to set primary and foreign keys.

Employee: SSN (primary key), Dno (Foreign Key)

Department: Dnumber (Primary Key), ManagerSSN (Foreign Key)

```
ALTER TABLE EMPLOYEE
ADD CONSTRAINT PK PRIMARY KEY (SSN);

ALTER TABLE DEPARTMENT
ADD CONSTRAINT PK PRIMARY KEY (Dnumber);

ALTER TABLE EMPLOYEE
ADD CONSTRAINT FK_Dept FOREIGN KEY (Dno) REFERENCES DEPARTMENT (Dnumber);

ALTER TABLE DEPARTMENT
ADD CONSTRAINT FK_Emp FOREIGN KEY (ManagerSSN) REFERENCES EMPLOYEE (SSN);
```

13. Save the textfile.
14. Type source path to the text file SQLCode_2.txt
15. Check for the results after execution.