

WEEK -1 (TASK 2)

```
mysql> CREATE DATABASE CollegeDB;
Query OK, 1 row affected (0.06 sec)
```

```
mysql> USE CollegeDB;
Database changed
```

```
mysql> CREATE TABLE Student (
-> VTU_Number VARCHAR(15) PRIMARY KEY,
-> Name VARCHAR(50) NOT NULL,
-> Email VARCHAR(50) UNIQUE,
-> Phone VARCHAR(15),
-> Department VARCHAR(50)
-> );
```

```
Query OK, 0 rows affected (0.12 sec)
```

```
mysql> CREATE TABLE Course (
-> Course_Code VARCHAR(10) PRIMARY KEY,
-> Course_Name VARCHAR(50) NOT NULL,
-> Faculty_Id VARCHAR(10),
-> Student_ID VARCHAR(15),
-> Faculty_Email VARCHAR(50),
-> FOREIGN KEY (Student_ID) REFERENCES Student(VTU_Number)
-> );
```

```
Query OK, 0 rows affected (0.06 sec)
```

```
mysql> INSERT INTO Student VALUES
-> ('1RV21CS001', 'Rahul', 'rahul@gmail.com', '9876543210', 'CSE'),
-> ('1RV21CS002', 'Ananya', 'ananya@gmail.com', '9876543211', 'CSE'),
-> ('1RV21CS003', 'Kiran', 'kiran@gmail.com', '9876543212', 'ISE'),
-> ('1RV21CS004', 'Sneha', 'sneha@gmail.com', '9876543213', 'ECE'),
-> ('1RV21CS005', 'Arjun', 'arjun@gmail.com', '9876543214', 'ME');
```

```
Query OK, 5 rows affected (0.04 sec)
```

```
Records: 5 Duplicates: 0 Warnings: 0
```

```
mysql> INSERT INTO Course VALUES
-> ('CS101', 'Data Structures', 'F001', '1RV21CS001', 'faculty1@gmail.com'),
-> ('CS102', 'DBMS', 'F002', '1RV21CS002', 'faculty2@gmail.com'),
-> ('CS103', 'Operating Systems', 'F003', '1RV21CS003', 'faculty3@gmail.com'),
-> ('CS104', 'Computer Networks', 'F004', '1RV21CS004', 'faculty4@gmail.com'),
-> ('CS105', 'Software Engineering', 'F005', '1RV21CS005', 'faculty5@gmail.com');
```

```
Query OK, 5 rows affected (0.02 sec)
```

```
Records: 5 Duplicates: 0 Warnings: 0
```

```
mysql> SELECT * FROM Student;
```

VTU_Number	Name	Email	Phone	Department
1RV21CS001	Rahul	rahul@gmail.com	9876543210	CSE
1RV21CS002	Ananya	ananya@gmail.com	9876543211	CSE
1RV21CS003	Kiran	kiran@gmail.com	9876543212	ISE
1RV21CS004	Sneha	sneha@gmail.com	9876543213	ECE
1RV21CS005	Arjun	arjun@gmail.com	9876543214	ME

```
5 rows in set (0.01 sec)
```

```
mysql> SELECT * FROM Course;
```

Course_Code	Course_Name	Faculty_Id	Student_ID	Faculty_Email
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CS101	Data Structures	F001	1RV21CS001	faculty1@gmail.com
CS102	DBMS	F002	1RV21CS002	faculty2@gmail.com
CS103	Operating Systems	F003	1RV21CS003	faculty3@gmail.com
CS104	Computer Networks	F004	1RV21CS004	faculty4@gmail.com
CS105	Software Engineering	F005	1RV21CS005	faculty5@gmail.com

5 rows in set (0.00 sec)

```
mysql> SELECT * FROM Student
-> ORDER BY Name ASC;
```

VTU_Number	Name	Email	Phone	Department
1RV21CS002	Ananya	ananya@gmail.com	9876543211	CSE
1RV21CS005	Arjun	arjun@gmail.com	9876543214	ME
1RV21CS003	Kiran	kiran@gmail.com	9876543212	ISE
1RV21CS001	Rahul	rahul@gmail.com	9876543210	CSE
1RV21CS004	Sneha	sneha@gmail.com	9876543213	ECE

5 rows in set (0.01 sec)

```
mysql> SELECT * FROM Student
-> WHERE Name LIKE 'A%';
```

VTU_Number	Name	Email	Phone	Department
1RV21CS002	Ananya	ananya@gmail.com	9876543211	CSE
1RV21CS005	Arjun	arjun@gmail.com	9876543214	ME

2 rows in set (0.01 sec)

```
mysql> SELECT Student.Name, Course.Course_Name
-> FROM Student
-> INNER JOIN Course
-> ON Student.VTU_Number = Course.Student_ID;
```

Name	Course_Name
Rahul	Data Structures
Ananya	DBMS
Kiran	Operating Systems
Sneha	Computer Networks
Arjun	Software Engineering

5 rows in set (0.01 sec)

```
mysql> SELECT COUNT(*) AS Total_Students
-> FROM Student;
```

Total_Students
5

1 row in set (0.01 sec)