

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	
-------------	-------------	------------	------------	---------------	--

```

| 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)