1. Create a teacher Table in university database.
2. The schema is ( Teacher\_ID int , Name varchar ,Designation varchar, Departnebt varchar ,Credit\_load int):

Command: CREATE TABLE teacher(Teacher\_Id int, Name varchar(32), Designation varchar(32) ,Department varchar(32),Credit\_load int) ;

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1. Insert 20 random value in the teacher table :

The following command:

INSERT INTO teacher

VALUES

(1000201, 'Md. Ashikur Rahman', 'Lecturer','Software', 14),

(1000202, 'Saykot Shariar', 'Lecturer','Software', 16),

(1000203, 'Rayhan Rabby', 'Lecturer','Software', 15),

(1000204, 'Rajib mia', 'Professor','Software', 15),

(1000205, 'Nadia sultana', 'Senior Lectural','Software', 18),

(1000206, 'Maliha Mokless', 'Lecturer','Software', 14),

(1000207, 'Maliha sultana', 'Lecturer','Software', 14),

(1000208, 'Bibash', 'Lecturer','Software', 14),

(1000209, 'Nafij', 'Lecturer','Software', 14),

(1000210, 'Munna', 'Lecturer','Tourism', 14),

(1000211, 'Lizon', 'Lecturer','Software', 14),

(1000212, 'Alif', 'Lecturer','Software', 12),

(1000213, 'Hasib', 'Lecturer','Tourism', 14),

(1000214, 'Sihab', 'Lecturer','Software', 14),

(1000215, 'Rifat', 'Lecturer','CSE', 14),

(1000216, 'Emon', 'Lecturer','Software', 14),

(1000217, 'Lina', 'Lecturer','Software', 14),

(1000218, 'Shawon', 'Lecturer','Software', 14),

(1000219, 'Yousuf', 'Lecturer','Software', 14),

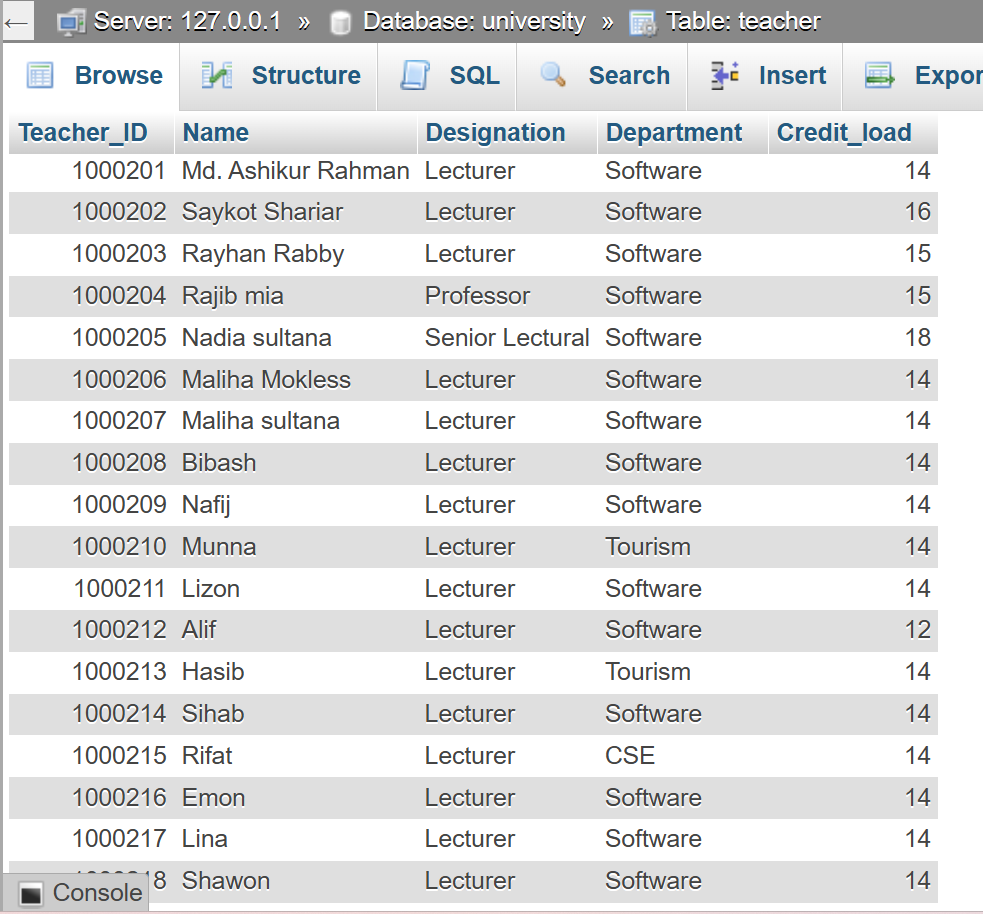
(1000220, 'Sadia', 'Lecturer','Software', 14);

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1. Add All student address:

Command : UPDATE students SET Address = 'Mirpur' WHERE Address IS NULL;

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A table with numbers and letters

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1. Sorting the student table based on the CGPA: The following code:

SELECT \* FROM student ORDER BY CGPA DESC;

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A table with numbers and numbers

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6.

SELECT AVG(Credit\_load) FROM teacher;

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A close-up of a number

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7.

SELECT AVG(due) FROM student;

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Create course table:

CREATE TABLE course(CourseID int, Name varchar(20), Semester int, Student\_ID int, Techer\_ID int);

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**Insert value in course table**

INSERT INTO course (`CourseID`, `Name`, `Semester`, `Student\_ID`, `Techer\_ID`)

VALUES

(201, 'Riad', 4, 101, 1000201),

(202, 'Sudipto', 4, 102, 1000202),

(203, 'Badhon', 4, 103, 1000201),

(204, 'Fahim', 4, 105, 1000202),

(205, 'Utsho', 4, 106, 1000201);

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**1. Perform Inner Join on Student and Course Table:**

SELECT \*

FROM student

INNER JOIN course

ON student.Student\_ID = course.Student\_ID;

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**2. Perform Right Join on Course and Student Table**

SELECT \* FROM course RIGHT JOIN student ON

student.Student\_ID = student.Student\_ID;

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**3. Perform Left Join on Teacher and Course Table**

SELECT \* FROM teacher LEFT JOIN Course ON

teacher.Teacher\_ID = Course.`Techer\_ID`;

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**4. Perform Full Join on Course and Teacher Table**

SELECT \* FROM course LEFT JOIN teacher ON course.`Techer\_ID` = Teacher.Teacher\_ID

UNION

SELECT \* FROM course RIGHT JOIN teacher ON

course.`Techer\_ID` = teacher.Teacher\_ID;

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