

Lab Performance Report

		Only for Co	urse Teacher			
		Needs Improvement	Developing	Sufficient	Above Average	Total Mark
Allocate mark & Percentage		25%	50%	75%	100%	10
Problem Understanding	02					
Analysis	03					
Implementation	03					
Report Writing	02					
				Total ob	tained mark	
Comments						

Semester: Spring 2025

Student Name: Md Rasheduzzaman Riad

Student ID: 232-35-402

Batch: 41H Section: H2

Course Code: SE224 Course Name: Database Systems lab

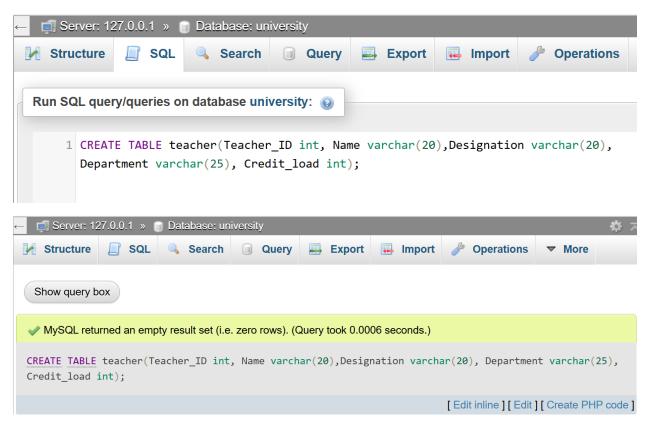
Course Teacher Name: Md. Ashikur Rahman

Designation:

Submission Date: 18/03/2025

- 1. Create a teacher Table in university database.
- 2. The schema is (Teacher_ID int, Name varchar, Designation varchar, Departmebt varchar, Credit load int):

Command: CREATE TABLE teacher(Teacher_Id int, Name varchar(32), Designation varchar(32), Department varchar(32), Credit_load int);



3. Insert 20 random value in the teacher table:

The following command:

INSERT INTO teacher

VALUES

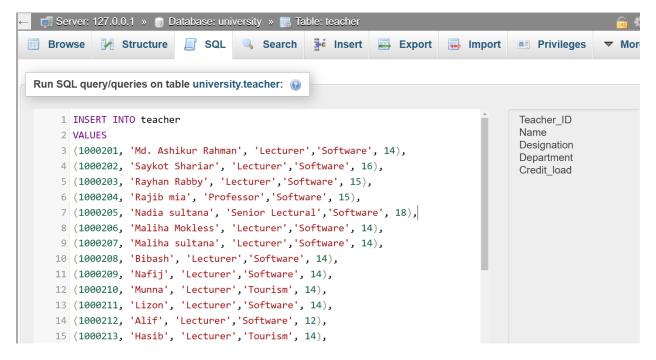
(1000201, 'Md. Ashikur Rahman', 'Lecturer', 'Software', 14),

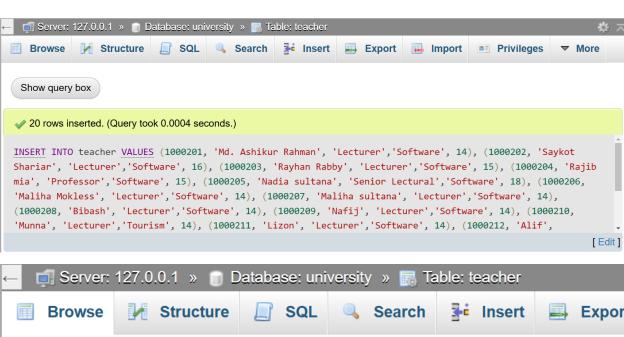
(1000202, 'Saykot Shariar', 'Lecturer', 'Software', 16),

(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);
```

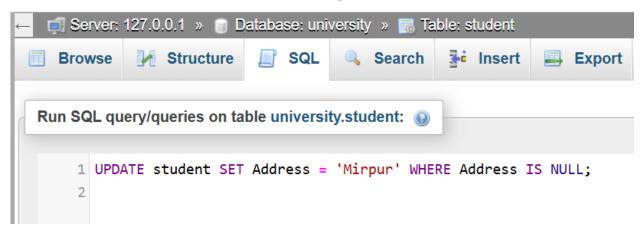




← January Server.	127.0.0.1 » 😈 Data	Dase. University	// 🛅 lable. le	a011 0 1	
Browse	M Structure] SQL 🔍 S	Search 34	Insert 🖶 Ex	(por
Teacher_ID	Name	Designation	Department	Credit_load	
1000201	Md. Ashikur Rahman	Lecturer	Software	14	
1000202	Saykot Shariar	Lecturer	Software	16	
1000203	Rayhan Rabby	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	
Console 8	Shawon	Lecturer	Software	14	

4. Add All student address:

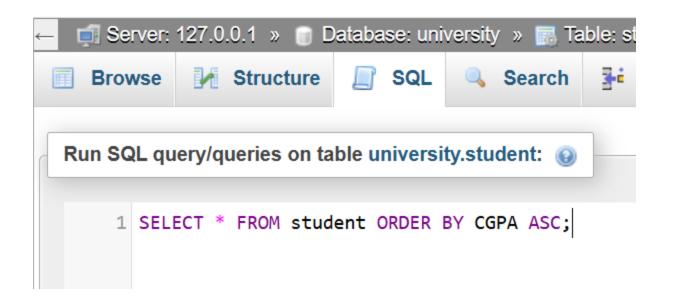
Command: UPDATE students SET Address = 'Mirpur' WHERE Address IS NULL;



Student_ID	Student_Name	Mobile_NO	CGPA	Due	Address
101	Riad	01892857879	3.75	500	Mirpur
102	Sudipto	01892857879	3.89	200	Mirpur
103	Badhon	01892857879	3.45	0	Mirpur
105	Fahim	01892857879	3.25	150	Mirpur
106	Utsho	01892857879	3.60	1000	Mirpur
110	Mim	01892857879	3.90	0	Mirpur
111	Jenny	01892857879	3.50	250	Mirpur
112	Moon	01892857879	3.78	800	Mirpur
116	Minahajul	01892857879	3.95	0	Mirpur
117	Tanjim	01892857879	3.55	700	Mirpur
118	Wasim	01892857879	3.80	300	Mirpur
119	Arafat	01892857879	3.20	600	Mirpur
125	Abrar	01892857879	3.30	900	Mirpur
126	Bitu	01892857879	3.92	50	Mirpur
127	Nafij	01892857879	3.70	350	Mirpur
128	Hasib	01892857879	3.85	100	Mirpur
129	Lizon	01892857879	3.40	450	Mirpur
130	Nayem	01892857879	3.88	400	Mirpur
132	Eva	01892857879	3.65	0	Mirpur

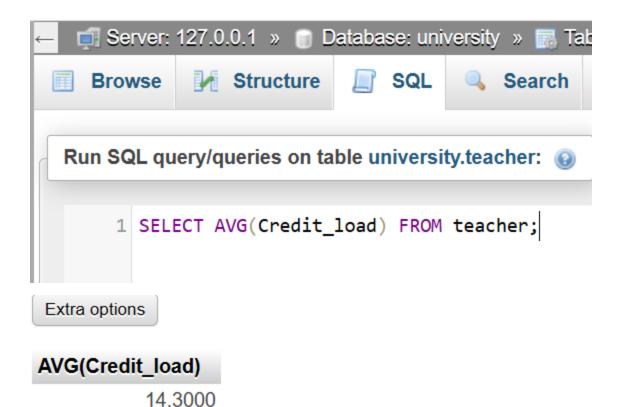
5. Sorting the student table based on the CGPA: The following code:

SELECT * FROM student ORDER BY CGPA DESC;

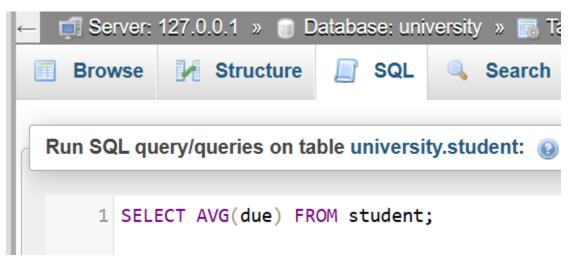


Student_ID	Student_Name	Mobile_NO	CGPA	<u> </u>	Due	Address
119	Arafat	01892857879		3.20	600	Mirpur
105	Fahim	01892857879		3.25	150	Mirpur
125	Abrar	01892857879		3.30	900	Mirpur
129	Lizon	01892857879		3.40	450	Mirpur
103	Badhon	01892857879		3.45	0	Mirpur
111	Jenny	01892857879		3.50	250	Mirpur
117	Tanjim	01892857879		3.55	700	Mirpur
106	Utsho	01892857879		3.60	1000	Mirpur
132	Eva	01892857879		3.65	0	Mirpur
127	Nafij	01892857879		3.70	350	Mirpur
101	Riad	01892857879		3.75	500	Mirpur
112	Moon	01892857879		3.78	800	Mirpur
118	Wasim	01892857879		3.80	300	Mirpur
128	Hasib	01892857879		3.85	100	Mirpur
130	Nayem	01892857879		3.88	400	Mirpur
102	Sudipto	01892857879		3.89	200	Mirpur
110	Mim	01892857879		3.90	0	Mirpur
126	Bitu	01892857879		3.92	50	Mirpur
116	Minahajul	01892857879		3.95	0	Mirpur
231	Munna	01892857879		3.99	0	Mirpur

^{6.}



7. SELECT AVG(due) FROM student;



Extra options

AVG(due)

337.5000

Create course table:

CREATE TABLE course(CourseID int, Name varchar(20), Semester int, Student_ID int, Techer_ID int);

```
✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0006 seconds.)

CREATE TABLE course(CourseID int, Name varchar(20), Semester int, Student_ID int, Techer_ID int);

[Edit inline] [Edit] [Create PHP code]
```

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);
```

CourseID	Name	Semester	Student_ID	Techer_ID
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

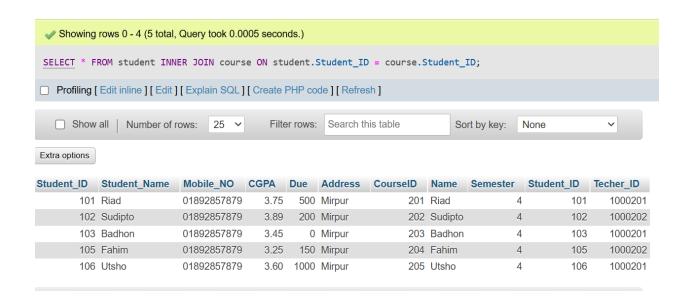
1. Perform Inner Join on Student and Course Table:

SELECT *

FROM student

INNER JOIN course

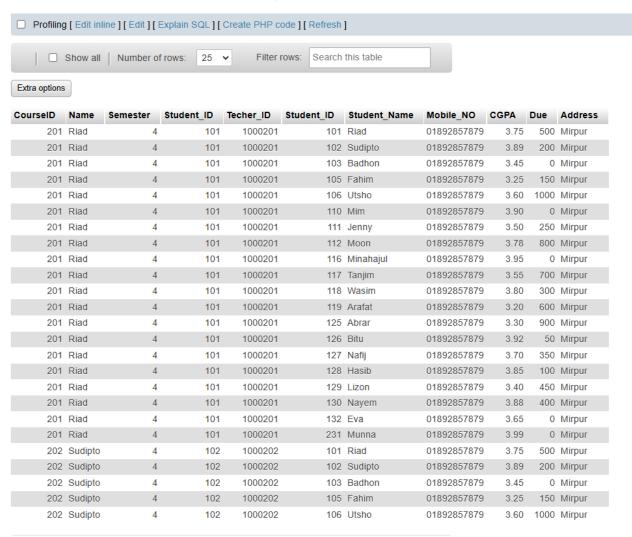
ON student_ID = course.Student_ID;



2. Perform Right Join on Course and Student Table

SELECT * FROM course RIGHT JOIN student ON

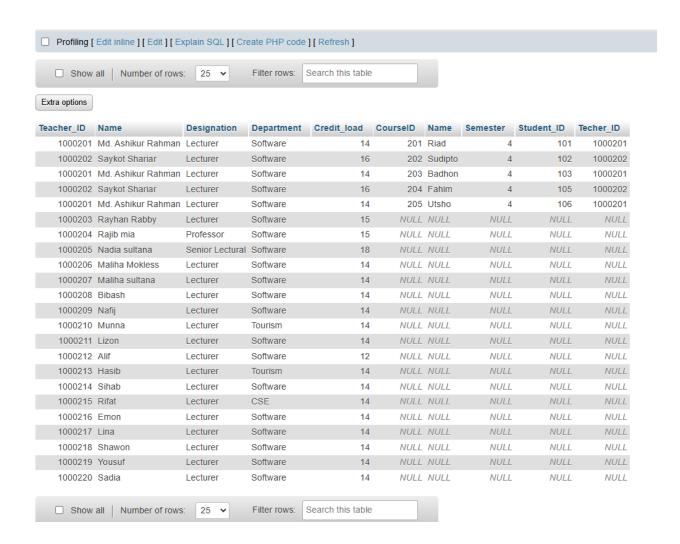
student.Student_ID = student.Student_ID;



3. Perform Left Join on Teacher and Course Table

SELECT * FROM teacher LEFT JOIN Course ON

teacher.Teacher ID = Course.`Techer ID`;



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;

