

DataBase : Database Testing

Table Name : bugresistance

```
CREATE TABLE bugresistance (  
  StudentID int(11) DEFAULT NULL,  
  StudentName varchar(255) DEFAULT NULL,  
  City varchar(255) DEFAULT NULL  
)
```

```
INSERT INTO bugresistance (StudentID, StudentName, City)  
VALUES  
(10, 'Tamim', 'Naogaon'),  
(11, 'Riyad', 'Dhaka'),  
(12, 'Fajle', 'Barisal'),  
(13, 'Rabbi', 'Dhaka'),  
(14, 'Mohammad', 'Tangail'),  
(15, 'Munna', 'Dhaka'),  
(16, 'Rezve', 'Bogra'),  
(17, 'Sahos', 'Noakhali'),  
(18, 'Niloy', 'Dhaka'),  
(19, 'Mohammad Ali', 'Hatiya');
```

Table Name: university

```
CREATE TABLE university (  
    StudentName varchar(255) DEFAULT NULL,  
    UniversityName varchar(255) DEFAULT NULL  
)
```

```
INSERT INTO university (StudentName, UniversityName)  
VALUES  
('Riyad', 'DIU'),  
('Fajle', 'BRAC'),  
('Mohammad Ali', 'AUST'),  
('Rabbi', 'NSU'),  
('Rezve', 'SUST'),  
('Munna', 'IUB'),  
('Sahos', 'AUST'),  
('Niloy', 'DIU'),  
('Rafi', 'IUBAT'),  
('Tamim', 'DIU'),  
('Mohammad', 'BRAC'),  
('khalid', 'DIU'),  
('Akin', 'JU'),  
('Himel', 'DU');
```

LEFT JOIN:

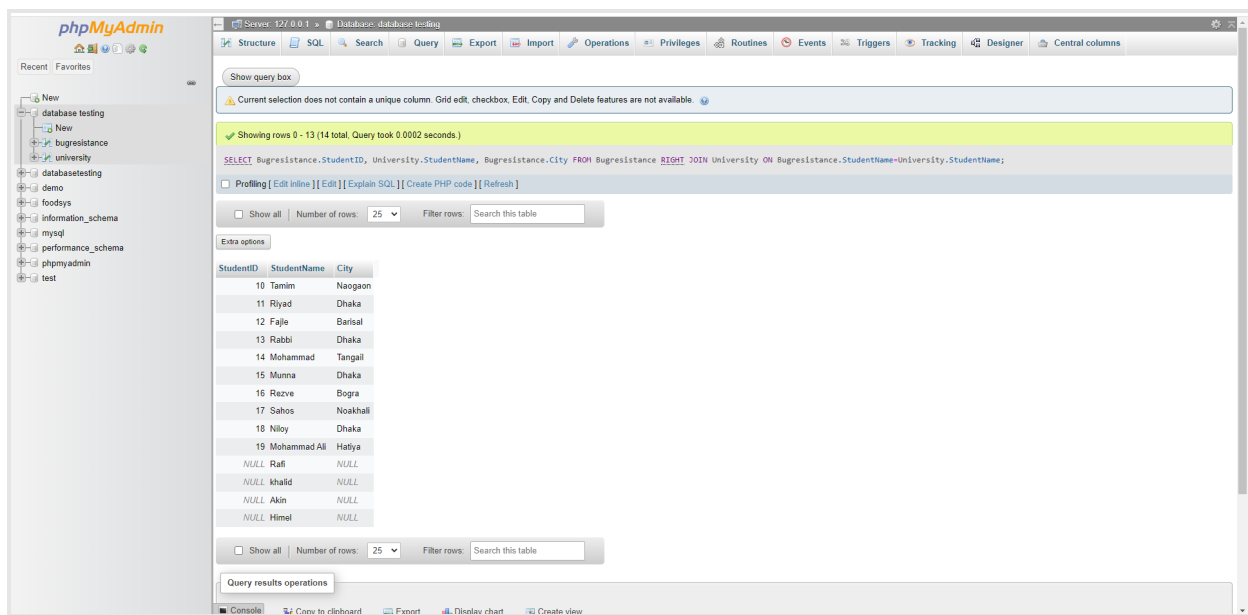
SELECT bugresistance.StudentID, university.StudentName,
bugresistance.City **FROM** bugresistance **LEFT JOIN** university
ON bugresistance.StudentName=university.StudentName;

The screenshot shows the phpMyAdmin interface with a query executed. The query is: `SELECT bugresistance.StudentID, university.StudentName, bugresistance.City FROM bugresistance LEFT JOIN university ON bugresistance.StudentName=university.StudentName;` The result shows 10 rows. The table structure is as follows:

StudentID	StudentName	City
11	Riyad	Dhaka
12	Fajle	Barisal
19	Mohammad Ali	Hatya
13	Rabbi	Dhaka
16	Razve	Bogra
15	Munna	Dhaka
17	Sahos	Nazkhal
18	Niloy	Dhaka
10	Tamim	Naogaon
14	Mohammad	Tangail

RIGHT JOIN:

SELECT Bugresistance.StudentID, University.StudentName,
Bugresistance.City **FROM** Bugresistance **RIGHT JOIN** University
ON Bugresistance.StudentName=University.StudentName;



The screenshot shows the phpMyAdmin interface with a query executed. The query is a RIGHT JOIN between the Bugresistance and University tables on the StudentName column. The results show 14 rows, including 10 rows from Bugresistance and 4 rows from University where StudentName is NULL.

Showing rows 0 - 13 (14 total. Query took 0.0002 seconds.)

```
SELECT Bugresistance.StudentID, University.StudentName, Bugresistance.City FROM Bugresistance RIGHT JOIN University ON Bugresistance.StudentName=University.StudentName;
```

Extra options

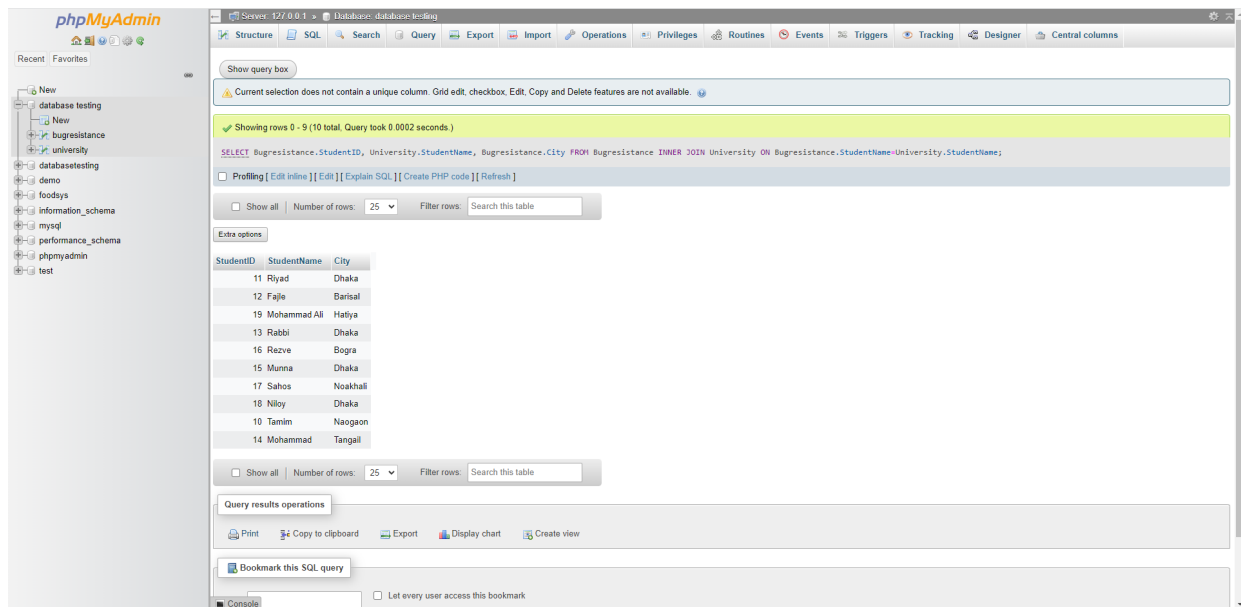
StudentID	StudentName	City
10	Tamim	Naogaon
11	Riyad	Dhaka
12	Fajle	Barisal
13	Rabbi	Dhaka
14	Mohammad	Tangail
15	Munna	Dhaka
16	Razve	Bogra
17	Sahos	Noakhali
18	Nitoy	Dhaka
19	Mohammad Ali	Hatya
NULL	Rafi	NULL
NULL	khalid	NULL
NULL	Akin	NULL
NULL	Himel	NULL

Query results operations

- Console
- Copy to clipboard
- Export
- Display chart
- Create view

INNER JOIN:

SELECT Bugresistance.StudentID, University.StudentName,
Bugresistance.City **FROM** Bugresistance **INNER JOIN** University
ON Bugresistance.StudentName=University.StudentName;



The screenshot shows the phpMyAdmin interface with a query executed. The query is: `SELECT Bugresistance.StudentID, University.StudentName, Bugresistance.City FROM Bugresistance INNER JOIN University ON Bugresistance.StudentName=University.StudentName;` The result shows 10 rows. The table has columns: StudentID, StudentName, and City.

StudentID	StudentName	City
11	Riyad	Dhaka
12	Fajle	Barisal
19	Mohammad Ali	Hatlya
13	Rabbi	Dhaka
16	Rezve	Bogra
15	Murra	Dhaka
17	Sahos	Noakhali
18	Niloy	Dhaka
10	Tamim	Naogaon
14	Mohammad	Tangail

FULL OUTER JOIN:

SELECT Bugresistance.StudentID, University.StudentName,
Bugresistance.City **FROM** Bugresistance **LEFT JOIN** University
ON Bugresistance.StudentName=University.StudentName
UNION
SELECT Bugresistance.StudentID, University.StudentName,
Bugresistance.City **FROM** Bugresistance **LEFT JOIN** University
ON Bugresistance.StudentName=University.StudentName;

The screenshot shows the phpMyAdmin interface with a SQL query executed. The query is a FULL OUTER JOIN between Bugresistance and University tables. The result shows 10 rows. A tooltip is visible over the first row.

Showing rows 0 - 9 (10 total. Query took 0.0014 seconds.)

```
SELECT Bugresistance.StudentID, University.StudentName, Bugresistance.City FROM Bugresistance LEFT JOIN University ON Bugresistance.StudentName=University.StudentName UNION SELECT Bugresistance.StudentID, University.StudentName, Bugresistance.City FROM Bugresistance LEFT JOIN University ON Bugresistance.StudentName=University.StudentName;
```

Query results operations: Print, Copy to clipboard, Export, Display chart, Create view

Bookmark this SQL query

StudentID	StudentName	City
19	Mohammad Ali	Hatiya
13	Rabbi	Dhaka
16	Rezve	Bogra
15	Munna	Dhaka
17	Sahos	Noakhali
18	Niloy	Dhaka
10	Tamim	Naogaon
14	Mohammad	Tangail