Inner Join , Left Join , Right Join , Full Outer Join

● **Table-1:**

StudentId	StudentName	City	CGPA	Faculty	Age
1	Meem	Dhaka	4	CSE	24
2	Jimiya	Barisal	4	LAW	20
3	Jaki	Dhaka	3	CSE	27
4	Setu	Khulna	3	BBA	24
5	Masfika	Comilla	3	NFS	26
6	Rumki	USA	3.5	EEE	24
7	Bithy	Fatullah	3.9	Math	29

+ Options

Fig1 : Table_1 (Bugresistance)

● **Table-2 :**

UniversityId	StudentName	Location	PostalCode	Salary
101	Jaki	Dhaka	1219	50000
101	Masfika	Patuakhali	8622	30000
101	Jimiya	Barisal	8601	40000
101	Bithy	Fatulla	7588	35000
101	Samiya	Saudi	4892	90000
101	Setu	Khulna	1679	60000
101	Jannat	Comilla	1224	25000

+ Options

Fig2: Table_2(University)

<u>Inner Join</u>

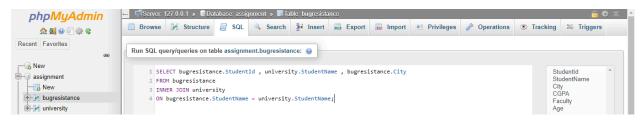- ## Inner Join Input:

Fig : Inner Join Input

- ## Inner Join Output :

Fig: Inner Join Output

Left Join

- ## Left Join Input :


```
Run SQL query/queries on table assignment.university: ⓘ

1  SELECT bugresistance.StudentId , university.StudentName , bugresistance.CGPA
2  FROM bugresistance
3  LEFT JOIN university
4  ON bugresistance.StudentName = university.StudentName;
```

Fig : Left Join Input

- ## Left Join Output :

+ Options

StudentId	StudentName	CGPA
3	Jaki	3
5	Masfika	3
2	Jimiya	4
7	Bithy	3.9
4	Setu	3
1	NULL	4
6	NULL	3.5

Fig: Left Join Output

Right Join

- ## Right Join Input :

```
1 SELECT bugresistance.StudentId , university.Location , university.PostalCode
2 FROM bugresistance
3 RIGHT JOIN university
4 ON bugresistance.StudentName = university.StudentName ;
```

Fig: Right Join Input

- ## Right Join Output :

StudentId	Location	PostalCode
2	Barisal	8601
3	Dhaka	1219
4	Khulna	1679
5	Patuakhali	8622
7	Fatulla	7588
NULL	Saudi	4892
NULL	Comilla	1224

Fig: Right Join Output

Full Outer Join

- ## Full Outer Join Input :

```
1  SELECT bugresistance.StudentId , university.StudentName , university.Location, bugresistance.City,
   bugresistance.Faculty , bugresistance.CGPA
2  FROM bugresistance
3  LEFT JOIN university
4  ON bugresistance.StudentName =university.StudentName
5  UNION
6  SELECT bugresistance.StudentId , university.StudentName , university.Location, bugresistance.City,
   bugresistance.Faculty , bugresistance.CGPA
7  FROM bugresistance
8  RIGHT JOIN university
9  ON bugresistance.StudentName = university.StudentName;
```

Fig : Full Outer Input

- ## Full Outer Join Output :

Showing rows 0 - 8 (9 total, Query took 0.0375 seconds.)

```
SELECT bugresistance.StudentId , university.StudentName , university.Location, bugresistance.City, bugresistance.Faculty , bugresistance.CGPA FROM
bugresistance LEFT JOIN university ON bugresistance.StudentName =university.StudentName UNION SELECT bugresistance.StudentId ,
university.StudentName , university.Location, bugresistance.City, bugresistance.Faculty , bugresistance.CGPA FROM bugresistance RIGHT JOIN
university ON bugresistance.StudentName = university.StudentName;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 ⌄ | Filter rows: Search this table

+ Options

StudentId	StudentName	Location	City	Faculty	CGPA
3	Jaki	Dhaka	Dhaka	CSE	3
5	Masfika	Patuakhali	Comilla	NFS	3
2	Jimiya	Barisal	Barisal	LAW	4
7	Bithy	Fatulla	Fatullah	Math	3.9
4	Setu	Khulna	Khulna	BBA	3
1	NULL	NULL	Dhaka	CSE	4
6	NULL	NULL	USA	EEE	3.5
NULL	Samiya	Saudi	NULL	NULL	NULL
NULL	Jannat	Comilla	NULL	NULL	NULL

Fig: Full Outer Join Output