

OUTER JOIN

1. Create a table instructor (id, name , dept-name , salary) and other table teachers(id, course-id) and perform the following outer join functions.

The screenshot shows the Paiza.io MySQL Online interface. The code editor contains the following SQL statements:

```
1 create table instructor(id int primary key, name varchar(100),dept_name varchar(100),salary int);
2 insert into instructor values(1,"Sanju","BSW",30000);
3 insert into instructor values(2,"Abhiram","BCA",40000);
4 insert into instructor values(3,"Jilta","BBA",35000);
5 insert into instructor values(4,"Hari","B.com",35000);
6 select * from instructor;
```

The output window displays the result of the SELECT statement:

id	name	dept_name	salary
1	Sanju	BSW	30000
2	Abhiram	BCA	40000
3	Jilta	BBA	35000
4	Hari	B.com	35000

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4 insert into instructor values(3,"Jilta","BBA",35000);
5 insert into instructor values(4,"Hari","B.com",35000);
6 select * from instructor;
7
8 create table teachers(id int primary key,courseid int, foreign key(id)references instructor(id));
9 insert into teachers values(1,9098);
10 insert into teachers values(2,9054);
11 insert into teachers values(3,9022);
12 insert into teachers values(4,9031);
13 select * from teachers;
```

The output window displays the result of the SELECT statement:

id	courseid
1	98
2	54
3	22
4	31

a) Left outer join

paiza.io MySQL Online

MySQL

```
1 create table instructor(id int primary key, name varchar(100),deptname varchar(100),salary int);
2 insert into instructor values(1,"Sanju","BSW",20000);
3 insert into instructor values(2,"Abhiram","BCA",40000);
4 insert into instructor values(3,"Jillta","BBA",35000);
5 insert into instructor values(4,"Harli","B.com",35000);
6
7 create table teachers(id int primary key,courseid int, foreign key(id)references instructor(id));
8 insert into teachers values(1,0000);
9 insert into teachers values(2,0054);
10 insert into teachers values(3,0022);
11 insert into teachers values(4,0031);
12 select teachers.id,teachers.courseid,instructor.id,instructor.deptname from teachers left join instructor on teachers.id=instructor.id;
```

Run (Ctrl-Enter) MySQL books

id	courseid	id	deptname
1	98	1	BSW
2	54	2	BCA
3	22	3	BBA
4	31	4	B.com

b) Right outer join

paiza.io MySQL Online

MySQL

```
1 create table instructor(id int primary key, name varchar(100),deptname varchar(100),salary int);
2 insert into instructor values(1,"Sanju","BSW",20000);
3 insert into instructor values(2,"Abhiram","BCA",40000);
4 insert into instructor values(3,"Jillta","BBA",35000);
5 insert into instructor values(4,"Harli","B.com",35000);
6
7 create table teachers(id int primary key,courseid int, foreign key(id)references instructor(id));
8 insert into teachers values(1,0000);
9 insert into teachers values(2,0054);
10 insert into teachers values(3,0022);
11 insert into teachers values(4,0031);
12 select teachers.id,teachers.courseid,instructor.id,instructor.deptname from teachers right join instructor on teachers.id=instructor.id;
```

Run (Ctrl-Enter) MySQL books

id	courseid	id	deptname
1	98	1	BSW
2	54	2	BCA
3	22	3	BBA
4	31	4	B.com

c) Full outer join

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MySQL Enter a title here

Main.sql

```
1 create table instructor(id int primary key, name varchar(100),deptname varchar(100),salary int);
2 insert into instructor values(101,'manju','IT',25000);
3 insert into instructor values(102,'manu','IT',25000);
4 insert into instructor values(103,'Anju','IT',25000);
5 insert into instructor values(104,'ame','IT',25000);
6 insert into instructor values(105,'Apu','IT',25000);
7
8 create table teacher(tid int,courseid int references instructor (id));
9 insert into teacher values(11,101);
10 insert into teacher values(11,101);
11 insert into teacher values(11,103);
12 insert into teacher values(12,102);
13 insert into teacher values(13,103);
14
15 select *
16 from instructor
17 join teacher
18 on instructor.id=teacher.courseid;
19
```

Run (Ctrl-Enter) MySQL books

id	name	deptname	salary	tid	courseid
101	manju	IT	25000	10	101
101	manju	IT	25000	11	101
103	Anju	IT	25000	11	103
102	manu	IT	25000	12	102
103	Anju	IT	25000	13	103