

OUTER JOIN

Create a table instructor(id,name,dept_name,salary)and other table teaches(id,course_id)and perform the following outer join functions

```
1 create table instructor(id int primary key,name varchar(50),dept_name varchar(20),salary int);
2 insert into instructor values(60,'Shajeer','MBA',45000);
3 insert into instructor values(75,'Saju','MCA',50000);
4 insert into instructor values(89,'Sunny','MA',55000);
5 select * from instructor;
```

Run (Ctrl-Enter) MySQL books

Output Input Comments 0

id	name	dept_name	salary
60	Shajeer	MBA	45000
75	Saju	MCA	50000
89	Sunny	MA	55000

```
1 create table instructor(id int primary key,name varchar(50),dept_name varchar(20),salary int);
2 insert into instructor values(60,'Shajeer','MBA',45000);
3 insert into instructor values(75,'Saju','MCA',50000);
4 insert into instructor values(89,'Sunny','MA',55000);
5
6 create table teaches(id int primary key,course_id int,foreign key(id)references instructor(id)) ;
7 insert into teaches values(60,111);
8 insert into teaches values(75,222);
9 insert into teaches values(89,333);
10 select * from teaches;
11
```

Run (Ctrl-Enter) MySQL books

Output Input Comments 0

id	course_id
60	111
75	222
89	333

a) Left outer join

```
1 create table instructor(id int primary key,name varchar(50),dept_name varchar(20),salary int);
2 insert into instructor values(60,'Shajeer','MBA',45000);
3 insert into instructor values(75,'Saju','MCA',50000);
4 insert into instructor values(89,'Sunny','MA',55000);
5 insert into instructor values(34,'Abraham','MBA',58000);
6 insert into instructor values(98,'Joseph','MCA',45000);
7
8
9 create table teaches(id int primary key,course_id int,foreign key(id)references instructor(id)) ;
10 insert into teaches values(60,111);
11 insert into teaches values(75,222);
12 insert into teaches values(89,333);
13 insert into teaches values(70,666);
14 insert into teaches values(40,555);
15
16 select teaches.id,teaches.course_id,instructor.id,instructor.dept_name from teaches left join instructor on teaches.id=instructor.id;
17
18
```

Run (Ctrl-Enter) MySQL books

id	course_id	id	dept_name
60	111	60	MBA
75	222	75	MCA
89	333	89	MA
70	666	NULL	NULL
40	555	NULL	NULL

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b) Right outer join

```
1 create table instructor(id int primary key,name varchar(50),dept_name varchar(20),salary int);
2 insert into instructor values(60,'Shajeer','MBA',45000);
3 insert into instructor values(75,'Saju','MCA',50000);
4 insert into instructor values(89,'Sunny','MA',55000);
5 insert into instructor values(34,'Abraham','MBA',58000);
6 insert into instructor values(98,'Joseph','MCA',45000);
7
8
9 create table teaches(id int primary key,course_id int,foreign key(id)references instructor(id)) ;
10 insert into teaches values(60,111);
11 insert into teaches values(75,222);
12 insert into teaches values(89,333);
13 insert into teaches values(70,666);
14 insert into teaches values(40,555);
15
16 select teaches.id,teaches.course_id,instructor.id,instructor.dept_name from teaches right join instructor on teaches.id=instructor.id;
17
18
```

Run (Ctrl-Enter) MySQL books

id	course_id	id	dept_name
60	111	60	MBA
75	222	75	MCA
89	333	89	MA
NULL	NULL	34	MBA
NULL	NULL	98	MCA

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c) Full outer join

```
1 create table instructor(id int primary key,name varchar(50),dept_name varchar(20),salary int);
2 insert into instructor values(60,'Shajeer','MBA',45000);
3 insert into instructor values(75,'Saju','MCA',50000);
4 insert into instructor values(89,'Sunny','MA',55000);
5 insert into instructor values(34,'Abraham','MBA',58000);
6 insert into instructor values(98,'Joseph','MCA',45000);
7
8
9 create table teaches(id int primary key,course_id int,foreign key(id)references instructor(id)) ;
10 insert into teaches values(60,111);
11 insert into teaches values(75,222);
12 insert into teaches values(89,333);
13 insert into teaches values(70,666);
14 insert into teaches values(40,555);
15
16 select * from instructor full outer join teaches on instructor.id=teaches.id;
17
18
```

Run (Ctrl-Enter) MySQL books

Output Runtime error Input Comments (1.54 sec)

ERROR 1064 (42000) at line 17: You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'outer join teaches on instructor.id=teaches.id' at line 1

