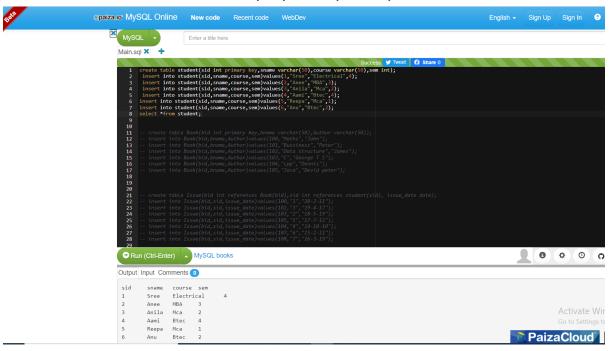# INNER JOIN
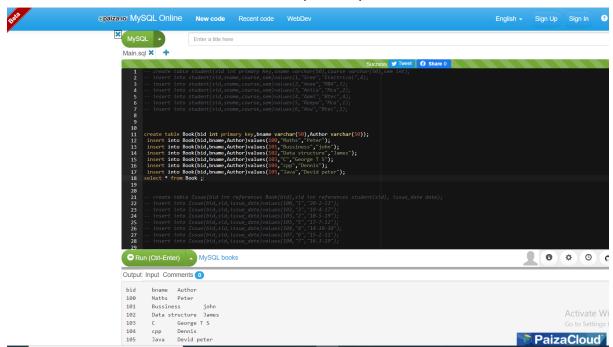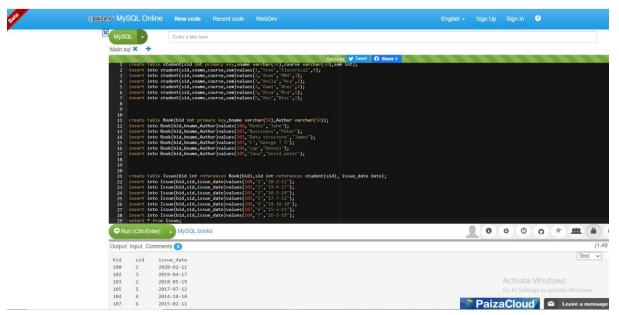
1. **Create table STUDENT with attributes ,SID,SNAME,course ,sem**
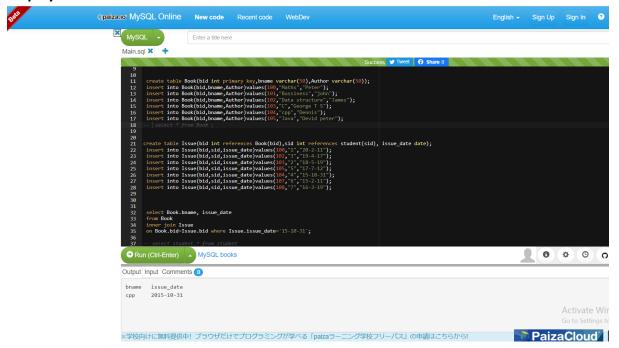

2. **Crete another table book with attributes BID,BNAME,AUTHOR**
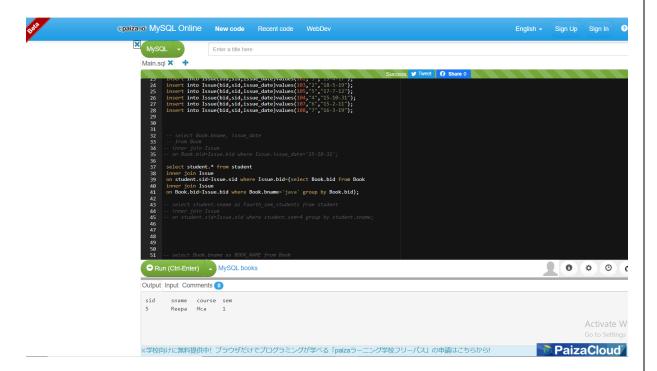

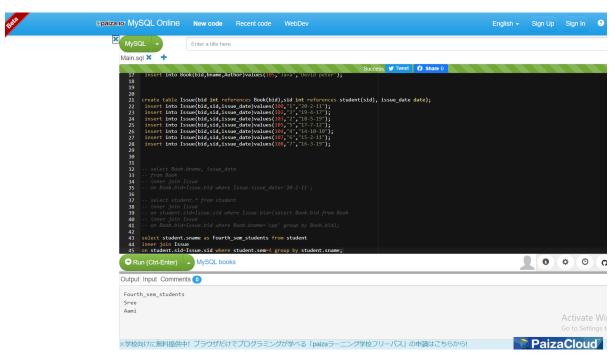
3. **Create table Issue BID,SID,ISSUEDATE**

4. Display the name of the book issued on 31-oct-15

5. Find the details of student who took the book ' java'

```
23  insert into Issue(bid,sid,issue_date)values(102, 3 , 19-4-17 );
24  insert into Issue(bid,sid,issue_date)values(103,"2","18-5-19");
25  insert into Issue(bid,sid,issue_date)values(105,"5","17-7-12");
26  insert into Issue(bid,sid,issue_date)values(104,"4","15-10-31");
27  insert into Issue(bid,sid,issue_date)values(107,"6","15-2-11");
28  insert into Issue(bid,sid,issue_date)values(108,"7","16-3-19");
29
30
31
32  -- select Book.bname, issue_date
33  -- from Book
34  -- inner join Issue
35  -- on Book.bid=Issue.bid where Issue.issue_date='15-10-31';
36
37  select student.* from student
38  inner join Issue
39  on student.sid=Issue.sid where Issue.bid=(select Book.bid from Book
40  inner join Issue
41  on Book.bid=Issue.bid where Book.bname='java' group by Book.bid);
42
43  -- select student.sname as Fourth_sem_students from student
44  -- inner join Issue
45  -- on student.sid=Issue.sid where student.sem=4 group by student.sname;
46
47
48
49
50
51  -- select Book.bname as BOOK_NAME from Book
```

Output

```
sid     sname     course    sem
5       Reepa     Mca       1
```

6. **Find out the name of 4th sem student who took atleast one book**


```
17  insert into Book(bid,bname,Author)values(105,"Java","Devid peter");
18
19
20
21  create table Issue(bid int references Book(bid),sid int references student(sid), issue_date date);
22  insert into Issue(bid,sid,issue_date)values(100,"1","20-2-11");
23  insert into Issue(bid,sid,issue_date)values(102,"3","19-4-17");
24  insert into Issue(bid,sid,issue_date)values(103,"2","18-5-19");
25  insert into Issue(bid,sid,issue_date)values(105,"5","17-7-12");
26  insert into Issue(bid,sid,issue_date)values(104,"4","14-10-10");
27  insert into Issue(bid,sid,issue_date)values(107,"6","15-2-11");
28  insert into Issue(bid,sid,issue_date)values(108,"7","16-3-19");
29
30
31
32  -- select Book.bname, issue_date
33  -- from Book
34  -- inner join Issue
35  -- on Book.bid=Issue.bid where Issue.issue_date='20-2-11';
36
37  -- select student.* from student
38  -- inner join Issue
39  -- on student.sid=Issue.sid where Issue.bid=(select Book.bid from Book
40  -- inner join Issue
41  -- on Book.bid=Issue.bid where Book.bname='cpp' group by Book.bid);
42
43  select student.sname as Fourth_sem_students from student
44  inner join Issue
45  on student.sid=Issue.sid where student.sem=4 group by student.sname;
```

Output

```
Fourth_sem_students
Sree
Aami
```

7. **Display the name of book issued id 'Reepa'**

MySQL ▾

Enter a title here

Main.sql ✖ ✚

Success ✔ Tweet Share 0

```
31
32  -- select Book.bname, issue_date
33  -- from Book
34  -- inner join Issue
35  -- on Book.bid=Issue.bid where Issue.issue_date='15-10-31';
36
37  -- select student.* from student
38  -- inner join Issue
39  -- on student.sid=Issue.sid where Issue.bid=(select Book.bid from Book
40  -- inner join Issue
41  -- on Book.bid=Issue.bid where Book.bname='java' group by Book.bid);
42
43  -- select student.sname as Fourth_sem_students from student
44  -- inner join Issue
45  -- on student.sid=Issue.sid where student.sem=4 group by student.sname;
46
47
48
49
50
51  select Book.bname as BOOK_NAME from Book
52  inner join Issue
53  on Book.bid=Issue.bid where Issue.sid=(select student.sid from student
54  inner join Issue
55  on student.sid=Issue.sid where student.sname="Reepa");
56
57
58
59  -- select student.sname from student
```

⊕ Run (Ctrl-Enter) ▴ MySQL books

Output Input Comments 0

```
BOOK_NAME
Java
```

Activate Win
Go to Settings t

8. Display the name of student who took the book written by 'Peter'

MySQL ▾

Enter a title here

Main.sql ✖ ✚

Success ✔ Tweet Share 0

```
38  -- inner join Issue
39  -- on student.sid=Issue.sid where Issue.bid=(select Book.bid from Book
40  -- inner join Issue
41  -- on Book.bid=Issue.bid where Book.bname='java' group by Book.bid);
42
43  -- select student.sname as Fourth_sem_students from student
44  -- inner join Issue
45  -- on student.sid=Issue.sid where student.sem=4 group by student.sname;
46
47
48
49
50
51  -- select Book.bname as BOOK_NAME from Book
52  -- inner join Issue
53  -- on Book.bid=Issue.bid where Issue.sid=(select student.sid from student
54  -- inner join Issue
55  -- on student.sid=Issue.sid where student.sname="Reepa");
56
57
58
59  select student.sname from student
60  inner join Issue
61  on  student.sid=Issue.sid where Issue.bid=(select Book.bid from Book
62  inner join Issue
63  on Book.bid=Issue.bid where Book.Author="peter" group by Book.bid)
64
65
66
```

⊕ Run (Ctrl-Enter) ▴ MySQL books

Output Input Comments 0

```
sname
Sree
```

Activate Win
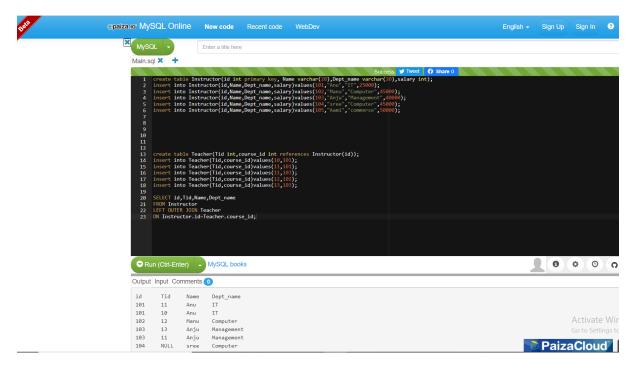Go to Settings t

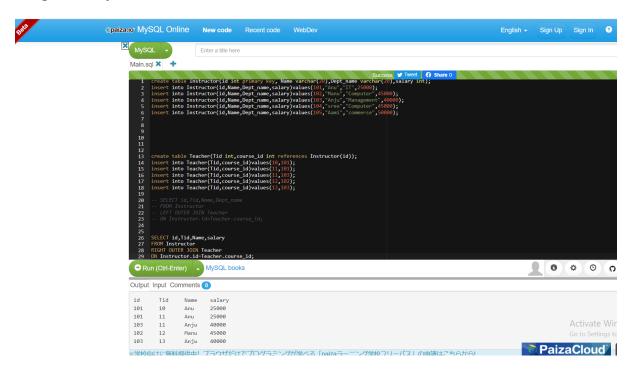https://paiza.io/#

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

A.Left outer join

B.Right outer join

c.Full outer join

MySQL ▾

Main.sql ✖ ✚

Enter a title here

Success 🐦 Tweet   Share 0

```
 8
 9
10
11
12
13  create table Teacher(Tid int,course_id int references Instructor(id));
14  insert into Teacher(Tid,course_id)values(10,101);
15  insert into Teacher(Tid,course_id)values(11,101);
16  insert into Teacher(Tid,course_id)values(11,103);
17  insert into Teacher(Tid,course_id)values(12,102);
18  insert into Teacher(Tid,course_id)values(13,103);
19
20  -- SELECT id,Tid,Name,Dept_name
21  -- FROM Instructor
22  -- LEFT OUTER JOIN Teacher
23  -- ON Instructor.id=Teacher.course_id;
24
25
26  -- SELECT id,Tid,Name,salary
27  -- FROM Instructor
28  -- RIGHT OUTER JOIN Teacher
29  -- ON Instructor.id=Teacher.course_id;
30
31
32
33  SELECT *
34  FROM Instructor
35  JOIN Teacher
36  ON Instructor.id=Teacher.course_id;
```

▶ Run (Ctrl-Enter) ▲   MySQL books

Output Input Comments 0

id	Name	Dept_name	salary	Tid	course_id
101	Anu	IT	25000	10	101
101	Anu	IT	25000	11	101
103	Anju	Management	40000	11	103
102	Manu	Computer	45000	12	102
103	Anju	Management	40000	13	103