INNER JOIN

1 . Create table student with attributes sid,sname,course,sem

```
1  create table student(sid int primary key,sname varchar(50),course varchar(30),sem int(10));
2  insert into student values(35,'Jabbar','MBA',4);
3  insert into student values(52,'Afla','MCA',2);
4  insert into student values(23,'Reena','MCA',1);
5  insert into student values(48,'Aleena','MBA',3);
6  select * from student;
```

Run (Ctrl-Enter) ▲ MySQL books

Output Input Comments ⓪

sid	sname	course	sem
35	Jabbar	MBA	4
52	Afla	MCA	2
23	Reena	MCA	1
48	Aleena	MBA	3

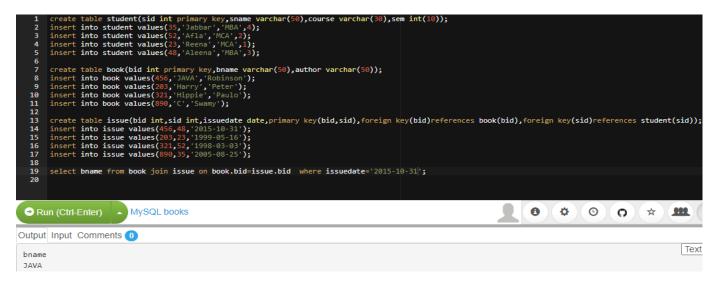2. Create another table book with attributes bid,bname,author

```
1  create table student(sid int primary key,sname varchar(50),course varchar(30),sem int(10));
2  insert into student values(35,'Jabbar','MBA',4);
3  insert into student values(52,'Afla','MCA',2);
4  insert into student values(23,'Reena','MCA',1);
5  insert into student values(48,'Aleena','MBA',3);
6
7  create table book(bid int primary key,bname varchar(50),author varchar(50));
8  insert into book values(456,'JAVA','Robinson');
9  insert into book values(203,'Harry','Peter');
10 insert into book values(321,'Hippie','Paulo');
11 insert into book values(890,'C','Swamy');
12 select * from book;
13
```

Run (Ctrl-Enter) ▲ MySQL books

Output Input Comments ⓪

bid	bname	author
456	JAVA	Robinson
203	Harry	Peter
321	Hippie	Paulo
890	C	Swamy

3 . create table issue bid,sid,issue date

```
1   create table student(sid int primary key,sname varchar(50),course varchar(30),sem int(10));
2   insert into student values(35,'Jabbar','MBA',4);
3   insert into student values(52,'Afla','MCA',2);
4   insert into student values(23,'Reena','MCA',1);
5   insert into student values(48,'Aleena','MBA',3);
6
7   create table book(bid int primary key,bname varchar(50),author varchar(50));
8   insert into book values(456,'JAVA','Robinson');
9   insert into book values(203,'Harry','Peter');
10  insert into book values(321,'Hippie','Paulo');
11  insert into book values(890,'C','Swamy');
12
13  create table issue(bid int,sid int,issuedate date,primary key(bid,sid),foreign key(bid)references book(bid),foreign key(sid)references student(sid));
14  insert into issue values(48,456,'2015-10-31');
15  insert into issue values(23,203,'1999-05-16');
16  insert into issue values(52,321,'1998-03-03');
17  insert into issue values(35,890,'2005-08-25');
18  select * from issue;
19
```

Run (Ctrl-Enter) ⌄ MySQL books

Output Input Comments 0

Text

bid	sid	issuedate
48	456	2015-10-31
23	203	1999-05-16
52	321	1998-03-03
35	890	2005-08-25

4 . Display the name of the books issued on 2015-10-31

```
1   create table student(sid int primary key,sname varchar(50),course varchar(30),sem int(10));
2   insert into student values(35,'Jabbar','MBA',4);
3   insert into student values(52,'Afla','MCA',2);
4   insert into student values(23,'Reena','MCA',1);
5   insert into student values(48,'Aleena','MBA',3);
6
7   create table book(bid int primary key,bname varchar(50),author varchar(50));
8   insert into book values(456,'JAVA','Robinson');
9   insert into book values(203,'Harry','Peter');
10  insert into book values(321,'Hippie','Paulo');
11  insert into book values(890,'C','Swamy');
12
13  create table issue(bid int,sid int,issuedate date,primary key(bid,sid),foreign key(bid)references book(bid),foreign key(sid)references student(sid));
14  insert into issue values(456,48,'2015-10-31');
15  insert into issue values(203,23,'1999-05-16');
16  insert into issue values(321,52,'1998-03-03');
17  insert into issue values(890,35,'2005-08-25');
18
19  select bname from book join issue on book.bid=issue.bid  where issuedate='2015-10-31';
20
```

Run (Ctrl-Enter) ⌄ MySQL books

Output Input Comments 0

Text

bname
JAVA

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

```
1   create table student(sid int primary key,sname varchar(50),course varchar(30),sem int(10));
2   insert into student values(35,'Jabbar','MBA',4);
3   insert into student values(52,'Afla','MCA',2);
4   insert into student values(23,'Reena','MCA',1);
5   insert into student values(48,'Aleena','MBA',3);
6
7   create table book(bid int primary key,bname varchar(50),author varchar(50));
8   insert into book values(456,'JAVA','Robinson');
9   insert into book values(203,'Harry','Peter');
10  insert into book values(321,'Hippie','Paulo');
11  insert into book values(890,'C','Swamy');
12
13  create table issue(bid int,sid int,issuedate date,primary key(bid,sid),foreign key(bid)references book(bid),foreign key(sid)references student(sid));
14  insert into issue values(456,48,'2015-10-31');
15  insert into issue values(203,23,'1999-05-16');
16  insert into issue values(321,52,'1998-03-03');
17  insert into issue values(890,35,'2005-08-25');
18
19  select student.* from student join issue on student.sid=issue.sid join book on book.bid=issue.bid where bname='JAVA';
20
```

Run (Ctrl-Enter) ⌄ MySQL books

Output Input Comments 0

Text

sid	sname	course	sem
48	Aleena	MBA	3

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

```
1   create table student(sid int primary key,sname varchar(50),course varchar(30),sem int(10));
2   insert into student values(35,'Jabbar','MBA',4);
3   insert into student values(52,'Afla','MCA',2);
4   insert into student values(23,'Reena','MCA',1);
5   insert into student values(48,'Aleena','MBA',3);
6
7   create table book(bid int primary key,bname varchar(50),author varchar(50));
8   insert into book values(456,'JAVA','Robinson');
9   insert into book values(203,'Harry','Peter');
10  insert into book values(321,'Hippie','Paulo');
11  insert into book values(890,'C','Swamy');
12
13  create table issue(bid int,sid int,issuedate date,primary key(bid,sid),foreign key(bid)references book(bid),foreign key(sid)references student(sid));
14  insert into issue values(456,48,'2015-10-31');
15  insert into issue values(203,23,'1999-05-16');
16  insert into issue values(321,52,'1998-03-03');
17  insert into issue values(890,35,'2005-08-25');
18
19  select sname from student join issue on student.sid=issue.sid join book on issue.bid=book.bid where sem=4;
20
```

Run (Ctrl-Enter) ▲ MySQL books

Output Input Comments **0**

Text

```
sname
Jabbar
```

7 . Display the name of book issued to 'Reena'

```
1   create table student(sid int primary key,sname varchar(50),course varchar(30),sem int(10));
2   insert into student values(35,'Jabbar','MBA',4);
3   insert into student values(52,'Afla','MCA',2);
4   insert into student values(23,'Reena','MCA',1);
5   insert into student values(48,'Aleena','MBA',3);
6
7   create table book(bid int primary key,bname varchar(50),author varchar(50));
8   insert into book values(456,'JAVA','Robinson');
9   insert into book values(203,'Harry','Peter');
10  insert into book values(321,'Hippie','Paulo');
11  insert into book values(890,'C','Swamy');
12
13  create table issue(bid int,sid int,issuedate date,primary key(bid,sid),foreign key(bid)references book(bid),foreign key(sid)references student(sid));
14  insert into issue values(456,48,'2015-10-31');
15  insert into issue values(203,23,'1999-05-16');
16  insert into issue values(321,52,'1998-03-03');
17  insert into issue values(890,35,'2005-08-25');
18
19  select bname from book join issue on book.bid=issue.bid join student on student.sid=issue.sid where sname='Reena';
20
```

Run (Ctrl-Enter) ▲ MySQL books

Output Input Comments **0**

Text

```
bname
Harry
```

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

```
1   create table student(sid int primary key,sname varchar(50),course varchar(30),sem int(10));
2   insert into student values(35,'Jabbar','MBA',4);
3   insert into student values(52,'Afla','MCA',2);
4   insert into student values(23,'Reena','MCA',1);
5   insert into student values(48,'Aleena','MBA',3);
6
7   create table book(bid int primary key,bname varchar(50),author varchar(50));
8   insert into book values(456,'JAVA','Robinson');
9   insert into book values(203,'Harry','Peter');
10  insert into book values(321,'Hippie','Paulo');
11  insert into book values(890,'C','Swamy');
12
13  create table issue(bid int,sid int,issuedate date,primary key(bid,sid),foreign key(bid)references book(bid),foreign key(sid)references student(sid));
14  insert into issue values(456,48,'2015-10-31');
15  insert into issue values(203,23,'1999-05-16');
16  insert into issue values(321,52,'1998-03-03');
17  insert into issue values(890,35,'2005-08-25');
18
19  select sname from student join issue on student.sid=issue.sid join book on issue.bid=book.bid where author='Peter';
20
```

Run (Ctrl-Enter) ▲ MySQL books

Output Input Comments **0**

Text

```
sname
Reena
```