

-1)
select school.name, publisher.name, count(*) from
teacher
join loan on teacher.id = loan.teacherId
join school on school.id = teacher.schoolId
join book on book.id = loan.bookId
join publisher on book.publisherId = publisher.id
group by (school.name, publisher.name);

```
create table school(  
  id serial primary key,  
  name varchar(64)  
);
```

```
insert into school(name) values  
  ('Horizon Education Institute'),  
  ('Bright Institution');
```

```
select * from school;
```

```
create table room(  
  id serial primary key,  
  name varchar(64)  
);
```

```
insert into room(name) values  
  ('1.A01'),  
  ('1.B01'),  
  ('2.B01');
```

```
select * from room;
```

```
create table teacher(  
  id serial primary key,  
  name varchar(64) not null,  
  schoolId integer not null,  
  roomId integer not null,  
  grade integer,  
  foreign key (schoolId) references school(id),  
  foreign key (roomId) references room(id)  
);
```

```
insert into teacher(name, schoolId, roomId, grade) values
```

```
('Chad Russell', 1, 1, 1),  
( 'E.F.Codd', 1, 2, 1),  
( 'Jones Smith', 1, 1, 2),  
( 'Adam Baker', 2, 3, 2);
```

```
select * from teacher;
```

```
create table publisher(  
  id serial primary key,  
  name varchar(64)  
);
```

```
insert into publisher(name) values  
  ('BOA Editions'),  
  ('Taylor & Francis Publishing'),  
  ('Prentice Hall'),  
  ('McGraw Hill');
```

```
select * from publisher;
```

```
create table book(  
  id serial primary key,  
  name varchar(64),  
  publisherId integer,  
  foreign key (publisherId) references publisher(id)  
);
```

```
insert into book(name, publisherId) values  
  ('Learning and teaching in early childhood', 1),  
  ('Preschool, N56', 2),  
  ('Early Childhood Education N9', 3),  
  ('Know how to educate:guide for Parents and', 4);
```

```
select * from book;
```

```
create table course(  
  id serial primary key,  
  name varchar(64)  
);
```

```
insert into course(name) values  
  ('Logical thinking'),  
  ('Writing'),  
  ('Numerical Thinking'),  
  ('Spatial, Temporal and Causal Thinking'),
```

```
('English');
```

```
select * from course;
```

```
create table loan(  
  id serial primary key,  
  teacherId integer,  
  bookId integer,  
  courseId integer,  
  date date,  
  foreign key (teacherId) references teacher(id),  
  foreign key (bookId) references book(id),  
  foreign key (courseId) references course(id)  
);
```

```
insert into loan(teacherId, bookId, courseId, date) values  
  (1, 1, 1, '2010-09-09'),  
  (1, 2, 2, '2010-05-05'),  
  (1, 1, 3, '2010-05-05'),  
  (2, 3, 4, '2010-05-06'),  
  (2, 1, 3, '2010-05-06'),  
  (3, 1, 2, '2010-09-09'),  
  (3, 4, 5, '2010-05-05'),  
  (4, 4, 1, '2010-12-18'),  
  (4, 1, 3, '2010-05-06');
```

```
select * from loan;
```