```
1 •
        insert into customers (first_name,last_name,email)
        values ('Boy', 'George', 'george@gmail.com'),
 2
         ('George', 'Michael', 'gm@gmail.com'),
         ('David', 'Bowie', 'david@gmail.com'),
 4
         ('Blue', 'Steele', 'blue@gmail.com'),
         ('Bette', 'Davis', 'bette@aol.com');
 7
  8
  9 •
          insert into orders(order_date,amount,customer_id)
          values ('2016/02/10' ,99.99,1),
 10
 11
          ('2017/11/11',35.50,1),
          ('2014/12/12',800.67,2),
 12
          ('2015/01/03',12.50,2),
 13
          ('1999/04/11',450.25,5);
 14
15
19
20 •
         select first_name ,
21
                  last_name ,
22
                  sum(amount)
23
         from customers left join orders on customers.id = orders.customer_id
24
         group by customers.id;
25
 28 •
          select first_name ,
 29
                   last name ,
 30
                   ifnull(sum(amount),0) as total_spent
 31
          from customers join orders on customers.id = orders.customer_id
          group by customers.id order by total spent;
 32
33
36 • select * from customers right join orders on customers.id = orders.customer_id;
38 •
     create table students( id int primary key not null auto_increment, first_name varchar(140));
39
40 •
     create table papers( title varchar(150), grade int , student_id int, foreign key (student_id) references students(id));
41
42 • insert into students (first_name) values ('Caleb'),('Samantha'),('Raj'),('Carlos'),('Lisa');
```

```
44 .
             insert into papers (student id , title , grade) values
             (1, 'My First Book Report', 60),
 45
             (1, 'My Secoud Book Report', 75),
 46
 47
             (2, 'Russian Lit Thorugh The ages',94),
             (2, 'De Montaigne and The Art of The Essay', 98),
 48
             (4, 'Borges and Magical Realism', 89);
 49
 50
51 • select first_name,title,grade from students inner join papers on students.id = papers.student_id;
53 • select first_name,title,grade from papers right join students on students.id = papers.student_id;
55 • select first_name,ifnull(title,'Missing') as title,ifnull(grade,0) as grade from students left join papers on students.id = papers.student_id;
57 • select first_name, avg(grade) as average from students left join papers on students.id = papers.student_id group by first_name order by average desc;
59 • select first_name, ifnull(avg(grade),0) as average,
60 ⊖ case
       when avg(grade) is null then 'falling'
61
62
      when avg(grade) >= 75 then 'Passing'
63
      else 'Falling'
     end as passing_status
65
     from students left join papers on students.id = papers.student_id group by students.id order by average desc;
66
70 • select first_name, avg(grade) as average,
71 ⊖ case
      when avg(grade) is null then 'falling'
72
      when avg(grade) >= 75 then 'Passing'
73
74
      else 'Falling'
     end as passing_status
75
76
      from students left join papers on students.id = papers.student_id group by students.id order by average desc;
```