```
mysql> create table CITY(id int, name varchar(17),countrycode
varchar(3),district varchar(20),population int);
mysql> desc city;
mysql> insert into city values
(3878,'Scottsdale','USA','Arizona',202705);
mysql> select * from city;
mysql> select * from city where population > 100000;
mysql> select sum(population) from city where district ='California';
mysql> select round(avg(population)) from city;


mysql> create table employee(empid int primary key,
    -> empfname varchar(15),
    -> emplname varchar(15),
    -> department varchar(15),
    -> project varchar (15),
    -> address varchar (20),
    -> dob varchar(10),
    -> gender varchar(1),
    -> salary int);
mysql> select * from employee where department ='hr';
mysql> select * from employee where substr(empfname,2,1) in
('a','e','i','o','u') and department ='hr' ;
mysql> select distinct department from employee;
mysql> select * from employee where gender ='f' and  salary >75000  ;
mysql> select count(*) from  employee where salary < 100000 and  salary >
50000  ;
mysql> select count(distinct project) from  employee ;
mysql> select department, count(empid) from  employee group by department
;



mysql> CREATE TABLE customers (
    -> customer_id INT NOT NULL PRIMARY KEY,
    -> first_name VARCHAR(255) NOT NULL,
    -> last_name VARCHAR(255) NOT NULL,
    -> email VARCHAR(255) NOT NULL,
    -> address VARCHAR(255) DEFAULT NULL,
    -> city VARCHAR(255) DEFAULT NULL,
    -> state VARCHAR(2) DEFAULT NULL,
    -> zip_code VARCHAR(5) DEFAULT NULL
    -> );

mysql> CREATE TABLE orders (
    -> order_id INT NOT NULL PRIMARY KEY,
    -> customer_id INT NOT NULL,
    -> order_placed_date DATE NOT NULL,
    -> FOREIGN KEY (customer_id) REFERENCES customers
    -> (customer_id)
    -> );
mysql> insert into customers values(1,'abc','a','abc@mail.com','1st
street','chennai','tn','60001');
mysql> insert into orders values(1,1,'2016-11-11');
mysql> select customers.email,count(orders.order_id) from orders INNER
JOIN customers on customers.customer_id = orders.customer_id where
orders.order_placed_date > '2016-01-01'
    -> AND orders.order_placed_date < '2017-01-01' group by
customers.customer_id;
```

```
mysql> create table student1 (sid varchar(5) primary key, sname
varchar(15), saddress varchar(15), sphone varchar(10),sage int);
mysql> create table course1 (cid varchar(5) primary key,cname
varchar(15);
mysql> create table student_course (sid varchar(5),cid varchar(5));

mysql> insert into student1 values('s1','ram','delhi','9447601761',18);
mysql> insert into course1 values ('c2','java');
mysql> insert into student_course values('s1','c1');
mysql> alter  table student_course add foreign key(sid) references
student1(sid);
mysql> alter  table student_course add foreign key(cid) references
course1(cid);
mysql> select
student1.sid,student1.sname,student1.saddress,student1.sage,student1.spho
ne,student1.sage from student1  inner join student_course on
student_course.sid = student1.sid
    -> inner join course1 on course1.cid = student_course.cid where
course1.cname ='java' and student1.saddress ='delhi';

mysql> create table movie (id int primary key,title varchar(15),director
varchar(15),year int,length_minutes int);
mysql> create table movie_rating (movie_id int primary key,rating
float(2,1),domestic_sales int,international_sales int);
mysql> alter table movie_rating add foreign key(movie_id) references
movie(id);
mysql> insert into movie(1,'batman','nolan',2010,120);
mysql> insert into movie_rating values(4,9.9,20000,25000);
mysql> select* from movie;
mysql> select movie.title, movie_rating.domestic_sales,
movie_rating.international_sales from movie INNER JOIN movie_rating
    -> ON movie.id = movie_rating.movie_id where
movie_rating.international_sales > movie_rating.domestic_sales;
mysql> select movie.title name,movie_rating.rating from movie INNER JOIN
movie_rating on movie.id = movie_rating.movie_id order by
movie_rating.rating DESC;
```