create database emp;

use emp ;

/\*1\*/

create table Department (

dept\_no int primary key,

dept\_name varchar(20),

location varchar(20));

create table employee(

emp\_no int primary key,

emp\_name varchar(20),

salary double,

dept\_no int ,

foreign key(dept\_no) references Department(dept\_no));

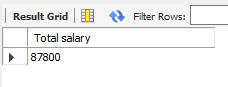
/\*2\*/

insert into Department values (11,"MCA","TVM"),(12,"BSC","Kollam"),(13,"BCA","TCR"),(14,"MCA","TVM");

insert into employee values(1,"Amal",15000,11),(2,"Rahul",15000,11),(3,"Aromal",17000,12),(4,"Deku",15800,13),(5,"Jeshma",14000,14),(6,"chinnu",11000,14);

/\*3\*/

select sum(salary) 'Total salary' from employee;

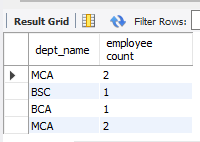


/\*4\*/

select d.dept\_name,count(e.emp\_no) 'employee count'

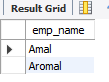
from employee e join Department d on e.dept\_no=d.dept\_no

group by d.dept\_no;



/\*5\*/

select emp\_name from employee where emp\_name like "A%";



use exam

switched to db exam

db.createCollection("student")

1 - db.student.insert({\_id:1,name:"Anjali",place:"kollam",phone:8582639562,Vaccination\_Status:"Both vaccinated",RTPCR:"negative",Lab\_Mark:{internal:30,external:45},department:"MCA"})

2 -

db.student.insert({\_id:2,name:"Anuradha",place:"varkala",phone:9992639562,Vaccination\_Status:"Both vaccinated",RTPCR:"negative",Lab\_Mark:{internal:40,external:48},department:"Civil"})

db.student.insert({\_id:3,name:"Bismiya",place:"kollam",phone:9446639562,Vaccination\_Status:"not vaccinated",RTPCR:"positive",Lab\_Mark:{internal:50,external:39},department:"MCA"})

db.student.insert({\_id:4,name:"Vimal",place:"ernakulam",phone:8582639568,Vaccination\_Status:"first dose only",RTPCR:"positive",Lab\_Mark:{internal:40,external:42},department:"Civil"})

db.student.insert({\_id:5,name:"Vivek",place:"kollam",phone:8582639777,Vaccination\_Status:"Both vaccinated",RTPCR:"negative",Lab\_Mark:{internal:50,external:50},department:"MCA"})

3. db.student.find({Vaccination\_Status:"not vaccinated"}).count()

4. db.student.aggregate({$project:{phone:1,Lab\_Mark:{external:1}}},{$sort:{"Lab\_Mark.external":-1}})

5 - db.student.updateMany({\_id:4},{$set:{Vaccination\_Status:"both vaccinated"}})