

SQL Code

```
1  create database mydb;
2  use mydb
3
4  create table emp(
5    empid INT primary key,
6    name varchar(50),
7    dept varchar(50),
8    salary decimal(10,2),
9    hire_date date
10   )
11
12  insert into emp (empid,name,dept,salary,hire_date) values
13    (1,'John','IT',2000000,'12/12/2020')
14  insert into emp values (2,'Thor','Sales',10000000,'11/01/2024')
15  insert into emp values (3,'Alex','IT',877777,'10/01/2021')
16  insert into emp values (4,'Elena','IT',100000,'05/11/2020')
17  insert into emp values (5,'sarah','Sales',300000,'05/02/2024')
18
19  select * from emp
20
21  select CURRENT_TIMESTAMP
22  select upper(name) from emp
23  select count(*) from emp
24  select avg(salary) from emp
25  select sum(salary) from emp
26  select len(name) from emp
27
28  drop table emp
29
30  create table emp(
31    empid INT primary key,
32    deptid int,
33    name varchar(50),
34    dept varchar(50),
35    salary decimal(10,2),
36    hire_date date
37   )
38
39  insert into emp (empid,deptid,name,dept,salary,hire_date) values
40    (1,101,'John','IT',2000000,'12/12/2020')
41  insert into emp values (2,102,'Thor','Sales',10000000,'11/01/2024')
42  insert into emp values (3,101,'Alex','IT',877777,'10/01/2021')
43  insert into emp values (4,101,'Elena','IT',100000,'05/11/2020')
44  insert into emp values (5,102,'sarah','Sales',300000,'05/02/2024')
45
46  create table dept(
47    deptid int Primary Key,
48    deptname varchar(50),
49    empid int)
```

```
49  insert into dept values (101,'IT',3)
50  insert into dept values (102,'Sales',5)
51  insert into dept values (103,'Techops',6)
52  insert into dept values (102,'IT',4)
53
54  select e.name,e.dept from emp e join dept d on e.empid =d.empid
55
56  select dept,count(*) from emp group by dept
57
58  select round(avg(salary),2) from emp
59  select max(salary),min(salary) from emp
60
61  create view high_salary_emp as
62  select name,salary from emp where salary>800000
63
64  select * from high_salary_emp
65
66  select name ,salary from emp where salary >(select avg(salary) from emp)
67
68  select name,salary from emp where empid in (select empid from dept)
69
70
71  create table stud(
72    sid int primary key,
73    sname varchar(10),
74    smark int,
75    sgrade varchar(1),
76
77  )
78  insert into stud values (1,'Peter',90,'A'),(2,'Damon',60,'D'),(3,'Amy',79,'C'),
79  (4,'Chris',80,'B'),(5,'Jeni',92,'A'),(6,'zack',85,'B')
80
81  select * from stud
82
83  select sname,smark,sgrade from stud where smark>=80
84
85  select sname ,sgrade from stud where sgrade='A'
86
87  select top 3 sname,smark from stud order by smark desc
88
89  create table emp1(
90    empid int primary key not null,
91    empname varchar(10) not null,
92    deptid int,
93    foreign key(deptid) references dept1(deptid)
94  )
95  alter table emp1 add salary int
96  update emp1 set salary=50000 where empid=1
97  update emp1 set salary=55000 where empid=2
98  update emp1 set salary=35000 where empid=3
99  update emp1 set salary=40000 where empid=4
100
101  insert into emp1 values (1,'jon',101),(2,'amy',101),(3,'zach',102)
101  insert into emp1 values (4,'jack',103)
```

```
102  
103  
104     create table dept1(  
105         deptid int primary key,  
106         deptname varchar(10) not null,  
107     )  
108     insert into dept1 values(101,'IT'),(102,'Sales')  
109     insert into dept1 values(103,'Techops')  
110     insert into dept1 values(104,'support')  
111  
112     create table proj(  
113         projid int primary key,  
114         projname varchar(10),  
115         empid int ,  
116         foreign key(empid) references emp1(empid)  
117     )  
118     insert into proj values(100,'ABC',1)  
119     insert into proj values(102,'XYZ',3)  
120     insert into proj values(101,'LMN',1)  
121  
122     select current_timestamp  
123  
124     select concat(empid,empname) from emp1  
125  
126     select e.empid,e.empname,d.deptid,d.deptname from emp1 e inner join dept1 d on  
e.deptid=d.deptid  
127  
128     select e.empid,e.empname,d.deptid,d.deptname from emp1 e right join dept1 d on  
e.deptid=d.deptid where e.empid is null  
129  
130  
131     select e.empid,e.empname,count(p.projid) as totalprojects from emp1 e join proj p  
on e.empid=p.empid group by e.empid,e.empname having count(p.projid)>1  
132  
133     select d.deptname,count(*) as number_of_employees from emp1 e join dept d on  
e.deptid=d.deptid group by d.deptname  
134  
135     select d.deptid,d.deptname,avg(e.salary) as avgsalary from emp1 e join dept d on  
e.deptid=d.deptid group by d.deptid,d.deptname having avg(salary)>40000  
136  
137     select empid,empname,salary from emp1 where salary > (select avg(salary) from  
emp1)  
138  
139     select d.deptid,d.deptname,sum(e.salary) as total_expense from emp1 e join dept d  
on e.deptid=d.deptid group by d.deptname,d.deptid  
140  
141     select e.empname,d.deptname from emp1 e join dept d on e.deptid=d.deptid where  
d.deptname in ('IT','Sales')  
142  
143     select empid ,empname from emp1 where exists(select empid from proj)
```