

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