

DBMS EXP: 4&5 (CSE-C) Sumit(134)

4a

SQL Worksheet

Clear Find

```
1 create table dept(dno number(3),dname varchar2(14) not null, dloc varchar2(12) unique, primary key(dno));
2 desc dept;
3 create table emp(empno number(4) not null,ename varchar(10),primary key(empno),deptno number(3) references dept(dno));
4 desc emp;
5 insert into dept values (10,'Accountancy','New York');
6 insert into dept values (20,'Research','London');
7 insert into dept values (30,'Sales','Chicago');
8 insert into dept values (40,'Operations','Boston');
9 select *from dept;
10 insert into emp values (043,'Deepika',10);
11 insert into emp values (134,'Sumit',20);
12 insert into emp values (104,'Raman',30);
13 insert into emp values (96, 'Prasuk',40);
14 select* from emp;
15 create table emp1(empno number(4),ename varchar2(10) default 'Sumit',primary key(empno),deptno number(3) references dept(dno),check (ename like 'S%'));
16 desc emp1;
17 insert into emp1 values (44,'Deepti',20);
18 insert into emp1 values (134,'Samar',20);
19 insert into emp1 values (135,'Suman',10);
20 insert into emp1 values (136,'Samarpreet',30);
21 insert into emp1 values (144,'Sanam',40);
22 select * from emp1;
```

Statement 1

Edit

create table dept(dno number(3),dname varchar2(14) not null, dloc varchar2(12) unique, primary key(dno))

Table created.

Statement 2

Edit

desc dept

TABLE DEPT

Column	Null?	Type
DNO	NOT NULL	NUMBER(3,0)
DNAME	NOT NULL	VARCHAR2(14)
DLOC	-	VARCHAR2(12)

Download CSV

3 rows selected.

Statement 3

Edit

create table emp(empno number(4) not null,ename varchar(10),primary key(empno),deptno number(3) references dept(dno))

Table created.

Statement 4

Edit

desc emp


TABLE EMP

Column	Null?	Type
EMPNO	NOT NULL	NUMBER(4,0)
ENAME	-	VARCHAR2(10)
DEPTNO	-	NUMBER(3,0)

Download CSV

3 rows selected.

Statement 5




Edit

insert into dept values (10,'Accountancy','New York')

1 row(s) inserted.

Statement 6




Edit

insert into dept values (20,'Research','London')

1 row(s) inserted.

Statement 7




Edit

insert into dept values (30,'Sales','Chicago')

1 row(s) inserted.

Statement 8




Edit

insert into dept values (40,'Operations','Boston')

1 row(s) inserted.

Statement 9



Edit


select \*from dept

DNO	DNAME	DLOC
10	Accountancy	New York
20	Research	London
30	Sales	Chicago
40	Operations	Boston

Download CSV

4 rows selected.

Statement 10




Edit

insert into emp values (043,'Deepika',10)

1 row(s) inserted.

Statement 11




Edit

insert into emp values (134,'Sumit',20)

1 row(s) inserted.

Statement 12



Edit

insert into emp values (104,'Raman',30)

1 row(s) inserted.

Statement 13



Edit

```
insert into emp values (96, 'Prasuk',40)
```

1 row(s) inserted.

Statement 14



Edit

```
select* from emp
```

EMPNO	ENAME	DEPTNO
43	Deepika	10
134	Sumit	20
104	Raman	30
96	Prasuk	40

[Download CSV](#)

4 rows selected.

Statement 15



Edit

```
create table emp1(empno number(4),ename varchar2(10) default 'Sumit',primary key(empno),deptno number(3) references dept(dno),check (ename like 'S%'))
```

Table created.

Statement 16



Edit

```
desc emp1
```

TABLE EMP1

Column	Null?	Type
EMPNO	NOT NULL	NUMBER(4,0)
ENAME	-	VARCHAR2(10)
DEPTNO	-	NUMBER(3,0)

[Download CSV](#)

3 rows selected.

Statement 17



Edit

```
insert into emp1 values (44,'Deepti',20)
```

ORA-02290: check constraint (SQL\_RPLQXIRDGJWVXZLDHUBOCLYYJ.SYS\_C0088850592) violated ORA-06512: at "SYS.DBMS\_SQL", line 1721

Statement **18**



Edit

```
insert into emp1 values (134,'Samar',20)
```

1 row(s) inserted.

Statement **19**



Edit

```
insert into emp1 values (135,'Suman',10)
```

1 row(s) inserted.

Statement **20**



Edit

```
insert into emp1 values (136,'Samarpreet',30)
```

1 row(s) inserted.

Statement **21**



Edit

```
insert into emp1 values (144,'Sanam',40)
```

1 row(s) inserted.

Statement **22**



Edit

```
select * from emp1
```

EMPNO	ENAME	DEPTNO
134	Samar	20
135	Suman	10
136	Samarpreet	30
144	Sanam	40

[Download CSV](#)

4 rows selected.

4b

## SQL Worksheet

1	create table employee(Eid number(4),ename varchar2(10),esal number(7),dno number,primary key (dno));
2	insert into employee values (234,'Sachin',45000,23);
3	insert into employee values (237,'Abhinav',64000,02);
4	insert into employee values (196,'Alia',56000,32);
5	insert into employee values (235,'Tushar',34000,15);
6	insert into employee values (432,'Mahesh',65650,20);
7	insert into employee values (422,'Dinesh',45600,34);
8	select * from employee;
9	create table department(deptno number references employee(dno),dname varchar(14),dloc varchar(15));
10	desc dept;
11	desc department;
12	insert into department values (23,'Hardware','Shanghai');
13	insert into department values (02,'Software','Delhi');
14	insert into department values (32,'Optics','Beijing');
15	insert into department values (15,'Alumina','London');
16	insert into department values (20,'Design','Mumbai');
17	insert into department values (34,'Accounts','Rajasthan');
18	select *from department;
19	select* from employee order by Eid asc;
20	select count(eid),esal from employee group by esal order by count(eid) asc;
21	select *from employee where esal not in('65650');
22	select eid from employee where esal between 30000 and 60000;
23	create table newemp as (select eid ,ename from employee);
24	select* from newemp;
25	
26	

Statement 24



Edit

```
create table employee(Eid number(4),ename varchar2(10),esal number(7),dno number,primary key (dno))
```

Table created.

Statement 25



Edit

```
insert into employee values (234,'Sachin',45000,23)
```

1 row(s) inserted.

Statement 26



Edit

```
insert into employee values (237,'Abhinav',64000,02)
```

1 row(s) inserted.

Statement 27



Edit

```
insert into employee values (196,'Alia',56000,32)
```

1 row(s) inserted.

Statement 28




Edit

```
insert into employee values (235,'Tushar',34000,15)
```

1 row(s) inserted.


Statement 29

 Edit

```
insert into employee values (432,'Mahesh',65650,20)
```

1 row(s) inserted.


Statement 30

 Edit

```
insert into employee values (422,'Dinesh',45600,34)
```

1 row(s) inserted.

Statement 31


 Edit

```
select * from employee
```

EID	ENAME	ESAL	DNO
237	Abhinav	64000	2
196	Alia	56000	32
235	Tushar	34000	15
432	Mahesh	65650	20
422	Dinesh	45600	34
234	Sachin	45000	23

[Download CSV](#)  
6 rows selected.


Statement 34

 Edit

```
create table department(deptno number references employee(dno),dname varchar(14),dloc varchar(15))
```

Table created.

Statement 35

 Edit

```
desc dept
```

TABLE DEPT

Column	Null?	Type
DNO	NOT NULL	NUMBER(3,0)
DNAME	NOT NULL	VARCHAR2(14)
DLOC	-	VARCHAR2(12)

[Download CSV](#)  
3 rows selected.

Statement 37



Edit

insert into department values (23,'Hardware','Shanghai')

1 row(s) inserted.

Statement 38




Edit

insert into department values (02,'Software','Delhi')

1 row(s) inserted.

Statement 39



Edit

insert into department values (32,'Optics','Beijing')

1 row(s) inserted.

Statement 40



Edit

insert into department values (15,'Alumina','London')

1 row(s) inserted.

Statement 41




Edit

insert into department values (20,'Design','Mumbai')

1 row(s) inserted.

Statement 42



Edit

insert into department values (34,'Accounts','Rajasthan')

1 row(s) inserted.

Statement 43



Edit

select \*from department

DEPTNO	DNAME	DLOC
23	Hardware	Shanghai
2	Software	Delhi
32	Optics	Beijing
15	Alumina	London
20	Design	Mumbai
34	Accounts	Rajasthan

[Download CSV](#)  
6 rows selected.

Statement **44**



Edit

```
select* from employee order by Eid asc
```

EID	ENAME	ESAL	DNO
196	Alia	56000	32
234	Sachin	45000	23
235	Tushar	34000	15
237	Abhinav	64000	2
422	Dinesh	45600	34
432	Mahesh	65650	20

[Download CSV](#)

6 rows selected.

Statement **46**



Edit

```
select count(eid),esal from employee group by esal order by count(eid) asc
```

COUNT(EID)	ESAL
1	56000
1	65650
1	45600
1	45000
1	34000
1	64000

[Download CSV](#)

6 rows selected.



Statement **47**



Edit

```
select *from employee where esal not in('65650')
```

EID	ENAME	ESAL	DNO
237	Abhinav	64000	2
196	Alia	56000	32
235	Tushar	34000	15
422	Dinesh	45600	34
234	Sachin	45000	23

[Download CSV](#)

5 rows selected.

Statement **48**



Edit

```
select eid from employee where esal between 30000 and 60000
```

EID
196
235
422
234

[Download CSV](#)

4 rows selected.

Statement **49**



Edit

```
create table newemp as (select eid ,ename from employee)
```

Table created.

Statement **50**



Edit

```
select* from newemp
```

EID	ENAME
237	Abhinav
196	Alia
235	Tushar
432	Mahesh
422	Dinesh
234	Sachin

[Download CSV](#)

6 rows selected.

5a

Statement  
51

```
select* from employee
```

EID	ENAME	ESAL	DNO
234	Sachin	45000	23
237	Abhinav	64000	2
196	Alia	56000	32
235	Tushar	34000	15
432	Mahesh	65650	20
422	Dinesh	45600	34

[Download CSV](#)

6 rows selected.

Statement  
52

```
select* from department
```

DEPTNO	DNAME	DLOC
23	Hardware	Shanghai
2	Software	Delhi
32	Optics	Beijing
15	Alumina	London
20	Design	Mumbai
34	Accounts	Rajasthan

[Download CSV](#)

6 rows selected.

Statement **53**



Edit

`select* from employee Natural Join department`

EID	ENAME	ESAL	DNO	DEPTNO	DNAME	DLOC
234	Sachin	45000	23	23	Hardware	Shanghai
234	Sachin	45000	23	2	Software	Delhi
234	Sachin	45000	23	32	Optics	Beijing
234	Sachin	45000	23	15	Alumina	London
234	Sachin	45000	23	20	Design	Mumbai
234	Sachin	45000	23	34	Accounts	Rajasthan
237	Abhinav	64000	2	23	Hardware	Shanghai
237	Abhinav	64000	2	2	Software	Delhi
237	Abhinav	64000	2	32	Optics	Beijing
237	Abhinav	64000	2	15	Alumina	London
237	Abhinav	64000	2	20	Design	Mumbai
237	Abhinav	64000	2	34	Accounts	Rajasthan
196	Alia	56000	32	23	Hardware	Shanghai
196	Alia	56000	32	2	Software	Delhi
196	Alia	56000	32	32	Optics	Beijing
196	Alia	56000	32	15	Alumina	London
196	Alia	56000	32	20	Design	Mumbai
196	Alia	56000	32	34	Accounts	Rajasthan
235	Tushar	34000	15	23	Hardware	Shanghai
235	Tushar	34000	15	2	Software	Delhi

235	Tushar	34000	15	23	Hardware	Shanghai
235	Tushar	34000	15	2	Software	Delhi
235	Tushar	34000	15	32	Optics	Beijing
235	Tushar	34000	15	15	Alumina	London
235	Tushar	34000	15	20	Design	Mumbai
235	Tushar	34000	15	34	Accounts	Rajasthan
432	Mahesh	65650	20	23	Hardware	Shanghai
432	Mahesh	65650	20	2	Software	Delhi
432	Mahesh	65650	20	32	Optics	Beijing
432	Mahesh	65650	20	15	Alumina	London
432	Mahesh	65650	20	20	Design	Mumbai
432	Mahesh	65650	20	34	Accounts	Rajasthan
422	Dinesh	45600	34	23	Hardware	Shanghai
422	Dinesh	45600	34	2	Software	Delhi
422	Dinesh	45600	34	32	Optics	Beijing
422	Dinesh	45600	34	15	Alumina	London
422	Dinesh	45600	34	20	Design	Mumbai
422	Dinesh	45600	34	34	Accounts	Rajasthan

[Download CSV](#)

36 rows selected.

Statement **54**



Edit

```
select eid, ename from employee, department where employee.dno = department.deptno
```

EID	ENAME
234	Sachin
237	Abhinav
196	Alia
235	Tushar
432	Mahesh
422	Dinesh

[Download CSV](#)

6 rows selected.

Statement 55



Edit

```
select* from employee natural join department where employee.esal>50000
```

EID	ENAME	ESAL	DNO	DEPTNO	DNAME	DLOC
237	Abhinav	64000	2	23	Hardware	Shanghai
237	Abhinav	64000	2	2	Software	Delhi
237	Abhinav	64000	2	32	Optics	Beijing
237	Abhinav	64000	2	15	Alumina	London
237	Abhinav	64000	2	20	Design	Mumbai
237	Abhinav	64000	2	34	Accounts	Rajasthan
196	Alia	56000	32	23	Hardware	Shanghai
196	Alia	56000	32	2	Software	Delhi
196	Alia	56000	32	32	Optics	Beijing
196	Alia	56000	32	15	Alumina	London
196	Alia	56000	32	20	Design	Mumbai
196	Alia	56000	32	34	Accounts	Rajasthan
432	Mahesh	65650	20	23	Hardware	Shanghai
432	Mahesh	65650	20	2	Software	Delhi
432	Mahesh	65650	20	32	Optics	Beijing
432	Mahesh	65650	20	15	Alumina	London
432	Mahesh	65650	20	20	Design	Mumbai
432	Mahesh	65650	20	34	Accounts	Rajasthan

[Download CSV](#)

18 rows selected.

Statement 56



Edit

```
select eid,dloc from employee left outer join department on employee.dno = department.deptno
```

EID	DLOC
234	Shanghai
237	Delhi
196	Beijing
235	London
432	Mumbai
422	Rajasthan

[Download CSV](#)

6 rows selected.

Statement 57



Edit

```
select eid,dloc from employee full outer join department on employee.dno = department.deptno
```

EID	DLOC
234	Shanghai
237	Delhi
196	Beijing
235	London
432	Mumbai
422	Rajasthan

[Download CSV](#)

6 rows selected.