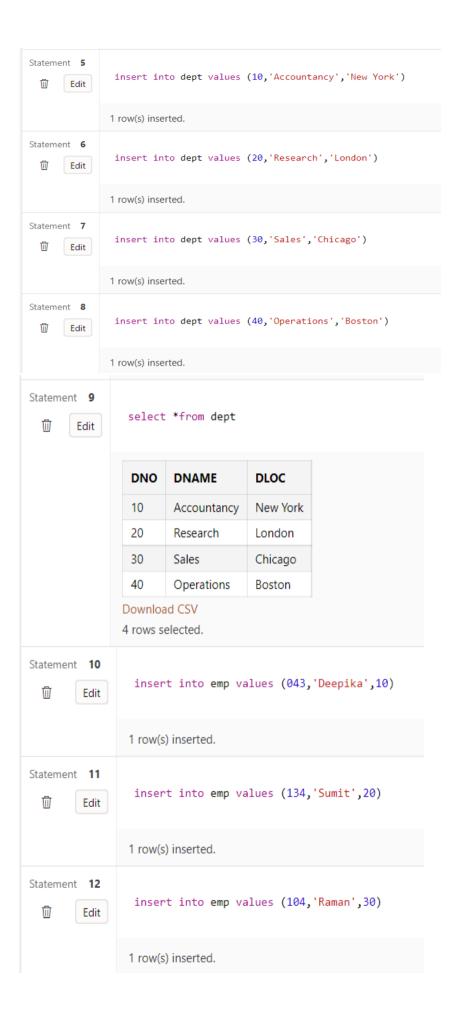
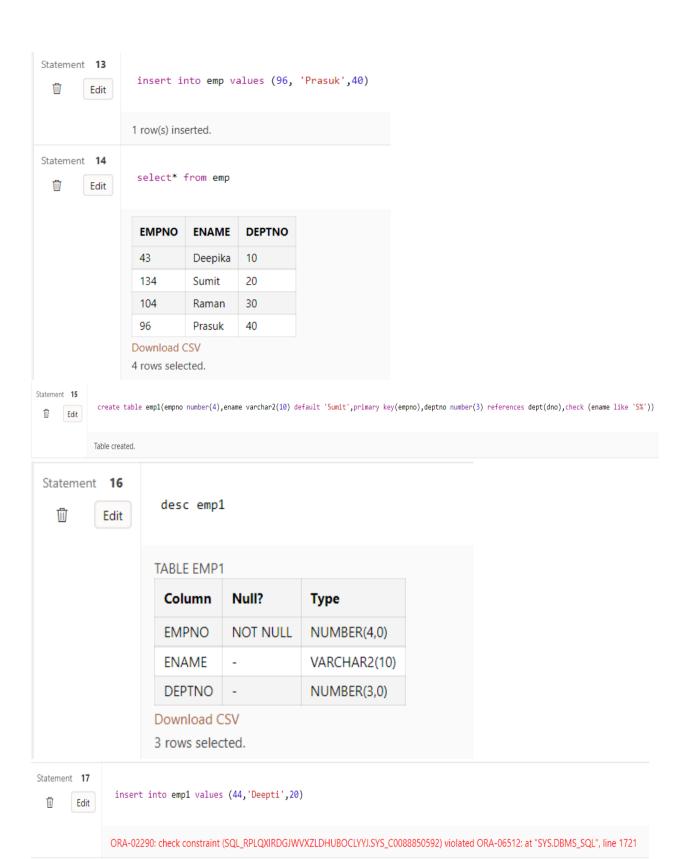
DBMS EXP: 4&5 (CSE-C) Sumit(134)

4a

```
SOL 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);
  insert into emp1 values (135, 'Suman',10);
insert into emp1 values (136, 'Samarpreet',30);
  21 insert into emp1 values (144, 'Sanam', 40);
  22 select * from emp1;
Statement 1
                  create table dept(dno number(3),dname varchar2(14) not null, dloc varchar2(12) unique, primary key(dno))
  Ŵ
      Edit
                 Table created.
Statement 2
                  desc dept
  Ŵ
      Edit
                 TABLE DEPT
                  Column Null?
                                         Туре
                  DNO
                            NOT NULL
                                        NUMBER(3,0)
                  DNAME NOT NULL
                                         VARCHAR2(14)
                  DLOC
                                         VARCHAR2(12)
                 Download CSV
                 3 rows selected.
Statement 3
                create table emp(empno number(4) not null, ename varchar(10), primary key(empno), deptno number(3) references dept(dno))
  Til Edit
               Table created
Statement 4
                desc emp
  Edit
               TABLE EMP
                Column
                          Null?
                                      Type
                EMPNO
                          NOT NULL
                                     NUMBER(4,0)
                ENAME
                                      VARCHAR2(10)
                DEPTNO -
                                      NUMBER(3,0)
               Download CSV
               3 rows selected.
```





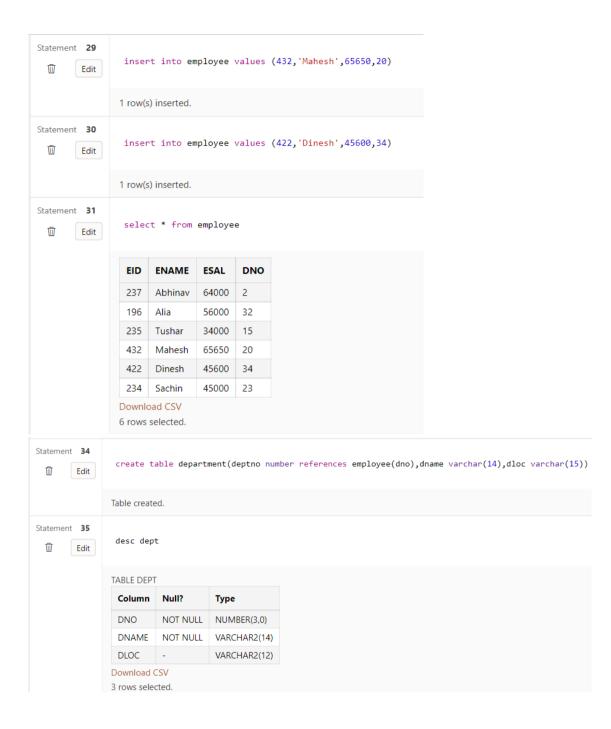


EMPNO	ENAME	DEPTNO
134	Samar	20
135	Suman	10
136	Samarpreet	30
144	Sanam	40

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SOL Worksheet

```
create table employee(Eid number(4),ename varchar2(10),esal number(7),dno number,primary key (dno));
        insert into employee values (234, 'Sachin',45000,23);
insert into employee values (237, 'Abhinav',64000,02);
        insert into employee values (196, 'Alia', 56000, 32);
        insert into employee values (235, 'Tushar', 34000,15);
insert into employee values (432, 'Mahesh', 65650,20);
        insert into employee values (422, 'Dinesh', 45600, 34);
        select * from employee;
        create table department(deptno number references employee(dno), dname varchar(14), dloc varchar(15));
   10 desc dept;
   11
        desc department;
        insert into department values (23, 'Hardware', 'Shanghai');
   12
  insert into department values (25, hardware, Shanghai);
insert into department values (02, 'Software', 'Delhi');
insert into department values (32, 'Optics', 'Beijing');
insert into department values (15, 'Alumina', 'London');
insert into department values (20, 'Design', 'Mumbai');
insert into department values (34, 'Accounts', 'Rajasthan');
        select *from department;
  18
        select* from employee order by Eid asc;
   19
       select count(eid),esal from employee group by esal order by count(eid) asc;
   20
        select *from employee where esal not in('65650');
select eid from employee where esal between 30000 and 60000;
   21
   22
   23
        create table newemp as (select eid ,ename from employee);
        select* from newemp;
   24
  25
  26
Statement 24
                      create table employee(Eid number(4),ename varchar2(10),esal number(7),dno number,primary key (dno))
  ΠĪĪ
          Edit
                     Table created.
Statement 25
                      insert into employee values (234, 'Sachin', 45000, 23)
  m
          Edit
                     1 row(s) inserted.
Statement 26
                      insert into employee values (237, 'Abhinav', 64000,02)
  III
          Edit
                     1 row(s) inserted.
Statement 27
                      insert into employee values (196, 'Alia', 56000, 32)
           Edit
                     1 row(s) inserted.
Statement 28
                      insert into employee values (235, 'Tushar', 34000,15)
          Edit
                     1 row(s) inserted.
```







T 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

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6 rows selected.

Statement 46



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

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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

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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

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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
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36 rows selected.



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

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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

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18 rows selected.

Statement 56



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

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б rows selected.

Statement 57





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	Raiasthan

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