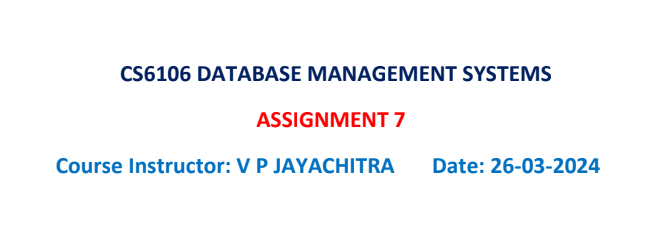
****

**2022503003**

**CREATE EMP TABLE:**

CREATE TABLE emp\_503003(

Fname varchar2(20) NOT NULL,

Minit char(1),

Lname varchar2(20) not null,

ssn number(9) primary key,

bdate date not null,

address varchar2(40),

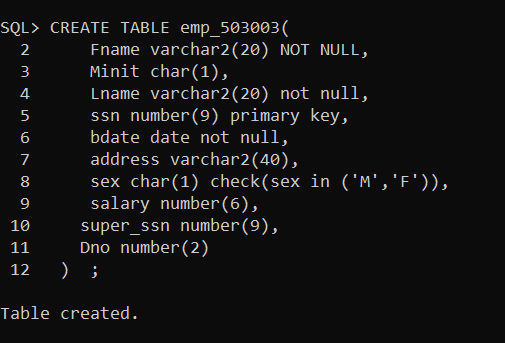
sex char(1) check(sex in ('M','F')),

salary number(6),

super\_ssn number(9),

Dno number(2)

) ;



insert into emp\_503003 values('John', 'B', 'Smith', 123456789, to\_date('1965-01-09', 'yyyy-mm-dd'), '731 Fondren, Houston, TX', 'M', 30000, 333445555, 5);

insert into emp\_503003 values('Franklin', 'T', 'Wong', 333445555, to\_date('1955-12-08', 'yyyy-mm-dd'), '638 Voss, Houston, TX', 'M', 40000, 888665555, 5);

insert into emp\_503003 values('Alicia', 'J', 'Zelaya', 999887777, to\_date('1968-01-19', 'yyyy-mm-dd'), '3321 Castle, Spring, TX', 'F', 25000, 987654321, 4);

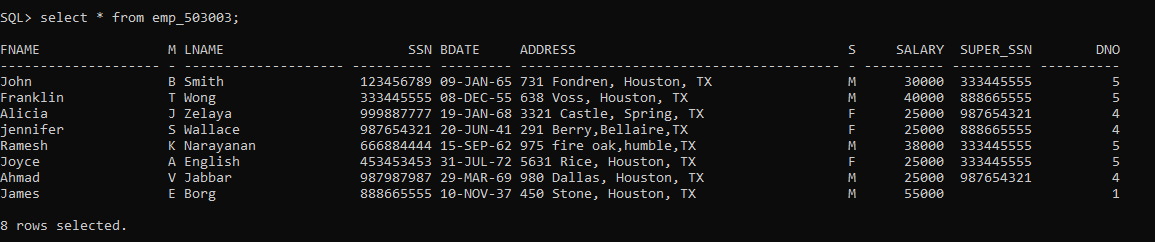
insert into emp\_503003 values('jennifer', 'S', 'Wallace', 987654321, to\_date('1941-06-20', 'yyyy-mm-dd'),'291 Berry,Bellaire,TX',’F’,25000,888665555,4);

Insert into emp\_503003 values('Ramesh', 'K', 'Narayanan', 666884444, to\_date('1962-09-15', 'yyyy-mm-dd'),'975 fire oak,humble,TX','M',38000,333445555,5);

insert into emp\_503003 values('Joyce', 'A', 'English', 453453453, to\_date('1972-07-31', 'yyyy-mm-dd'),'5631 Rice, Houston, TX','F',25000,333445555,5);

insert into emp\_503003 values('Ahmad', 'V', 'Jabbar', 987987987, to\_date('1969-03-29', 'yyyy-mm-dd'),'980 Dallas, Houston, TX','M',25000,987654321,4);

insert into emp\_503003 values('James', 'E', 'Borg', 888665555, to\_date('1937-11-10', 'yyyy-mm-dd'),'450 Stone, Houston, TX','M',55000,NULL,1);



**CREATE DEPT\_503003 TABLE:**

create table depart\_503003(

dname varchar(15) NOT NULL,

dnumber number(2) primary key,

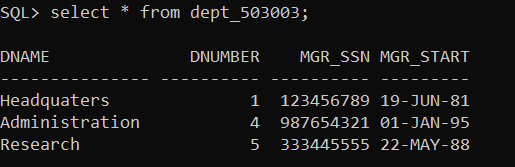
mgr\_ssn number(9),

mgr\_start\_date date,

);

insert into dept\_503003 values('Research', 5, 333445555, to\_date('1988-05-22', 'yyyy-mm-dd'));

insert into dept\_503003 values('Administration',4,987654321,to\_date('1995-01-01','yyyy-mm-dd'));

insert into dept\_503003 values('Headquaters',1,123456789,to\_date('1981-06-19','yyyy-mm-dd'));

**CRATE TABLE dept\_locations\_3003**

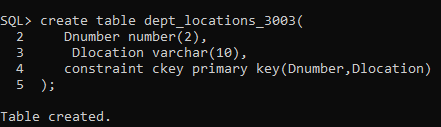
create table dept\_locations\_3003(

Dnumber number(2),

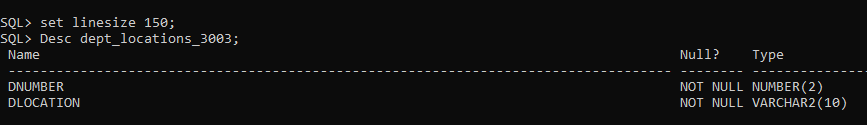
Dlocation varchar(10),

constraint ckey primary key(Dnumber,Dlocation)

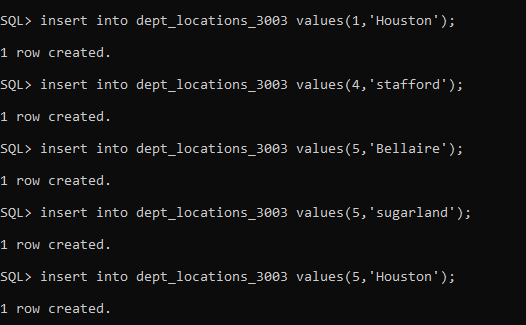
);



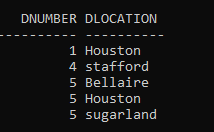
Desc dept\_locations\_3003;



insert into dept\_locations\_3003 values(1,'Houston');

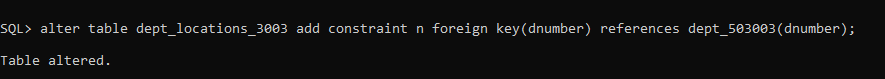


Select \* from dept\_locations\_3003;

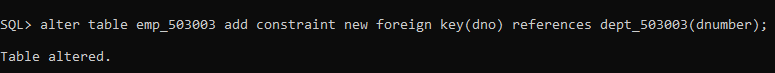


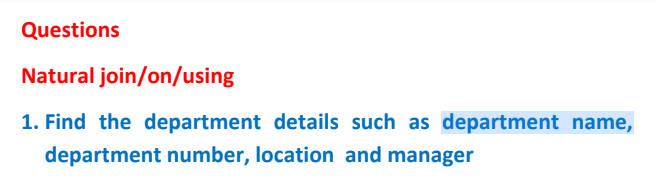
ADDING CONSTRAINTS:

alter table emp\_503003 add constraint new foreign key(dno) references dept\_503003(dnumber);

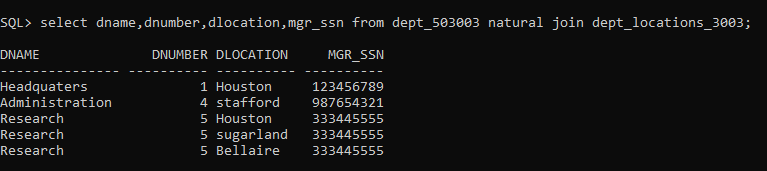


alter table dept\_locations\_3003 add constraint n foreign key(dnumber) references dept\_503003(dnumber);





select dname,dnumber,dlocation,mgr\_ssn from dept\_503003 natural join dept\_locations\_3003;

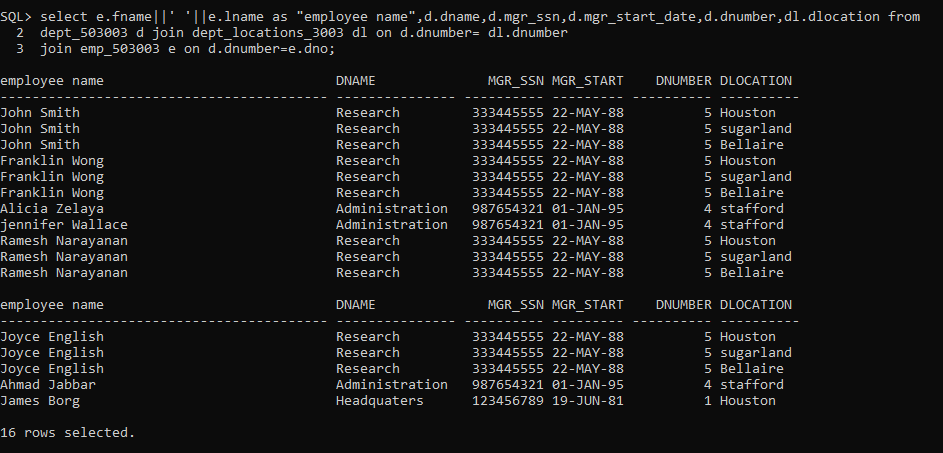




select e.fname||' '||e.lname as "employee name",d.dname,d.mgr\_ssn,d.mgr\_start\_date,d.dnumber,dl.dlocation from

dept\_503003 d join dept\_locations\_3003 dl on d.dnumber= dl.dnumber

join emp\_503003 e on d.dnumber=e.dno;

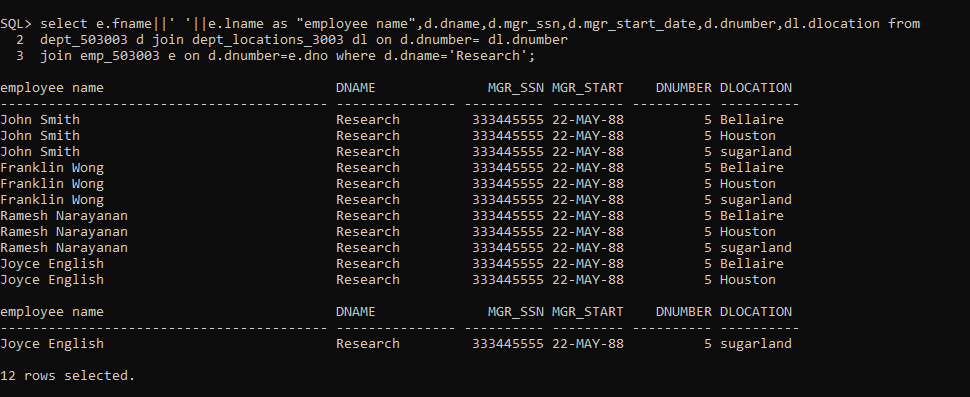


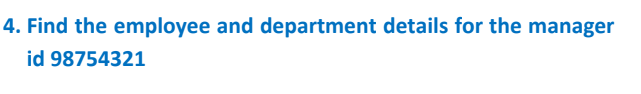


select e.fname||' '||e.lname as "employee name",d.dname,d.mgr\_ssn,d.mgr\_start\_date,d.dnumber,dl.dlocation from

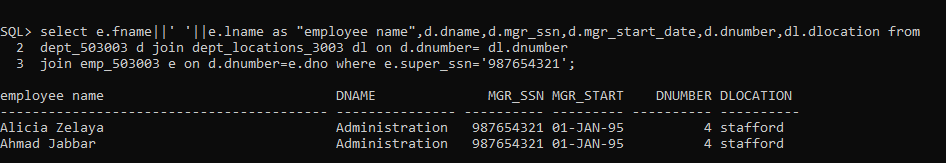
dept\_503003 d join dept\_locations\_3003 dl on d.dnumber= dl.dnumber

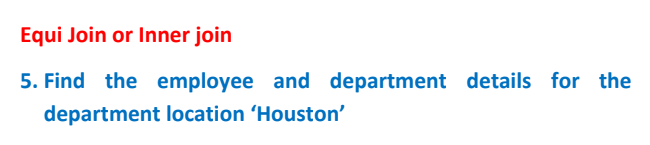
join emp\_503003 e on d.dnumber=e.dno where d.dname='Research';





select e.fname||' '||e.lname as "employee name",d.dname,d.mgr\_ssn,d.mgr\_start\_date,d.dnumber,dl.dlocation from dept\_503003 d join dept\_locations\_3003 dl on d.dnumber= dl.dnumber join emp\_503003 e on d.dnumber=e.dno where e.super\_ssn='987654321';

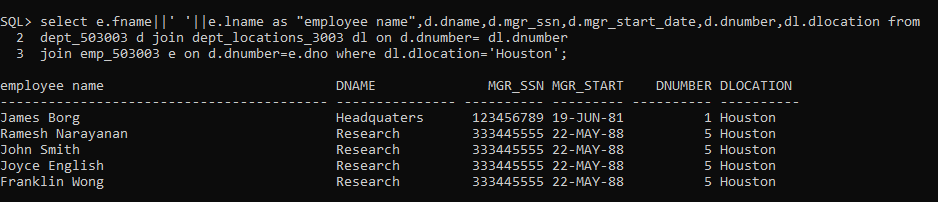


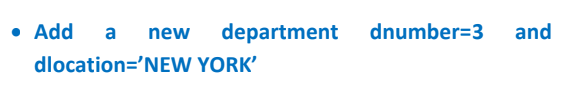


select e.fname||' '||e.lname as "employee name",d.dname,d.mgr\_ssn,d.mgr\_start\_date,d.dnumber,dl.dlocation from

dept\_503003 d join dept\_locations\_3003 dl on d.dnumber= dl.dnumber

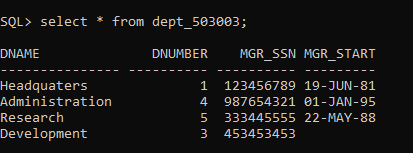
join emp\_503003 e on d.dnumber=e.dno where dl.dlocation='Houston';





insert into dept\_503003 values('Development',3, 453453453,'');

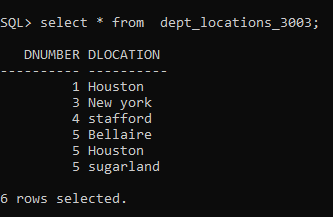
select \* from dept\_503003;



insert into dept\_locations\_3003 values (3,'New york');

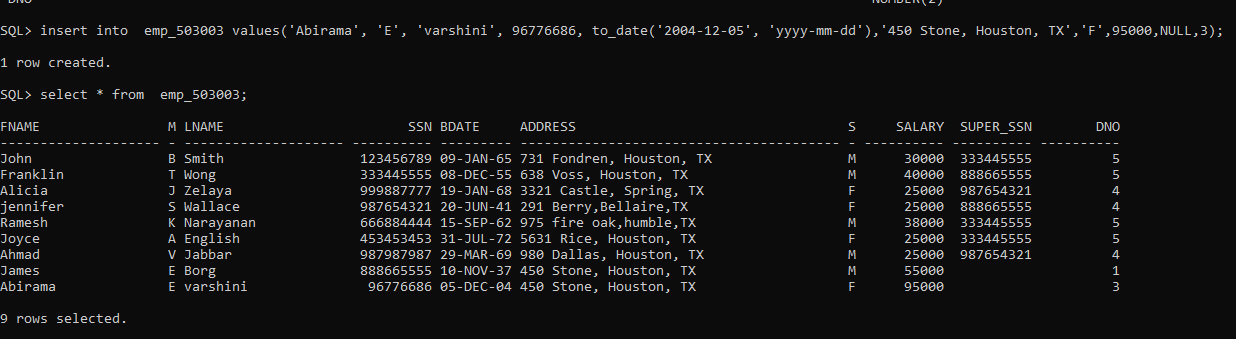


select \* from dept\_locations\_3003;





insert into emp\_503003 values('Abirama', 'E', 'varshini', 96776686, to\_date('2004-12-05', 'yyyy-mm-dd'),'450 Stone, Houston, TX','F',95000,NULL,3);

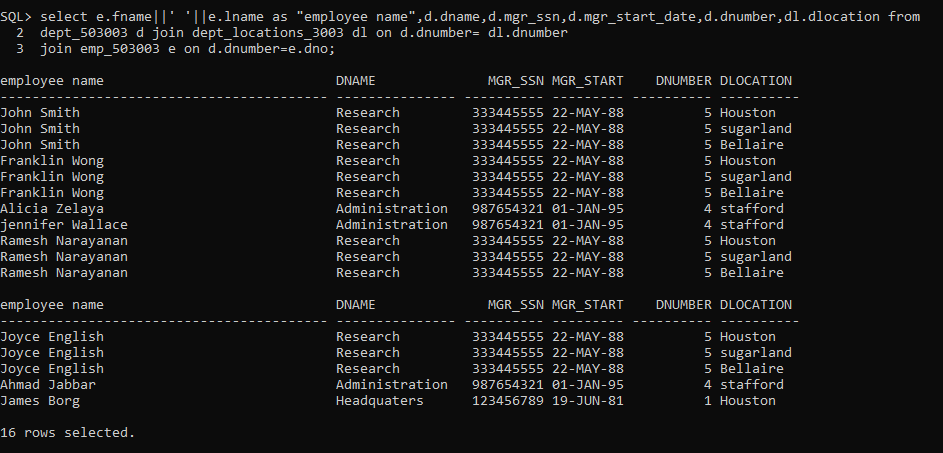




select e.fname||' '||e.lname as "employee name",d.dname,d.mgr\_ssn,d.mgr\_start\_date,d.dnumber,dl.dlocation from

dept\_503003 d join dept\_locations\_3003 dl on d.dnumber= dl.dnumber

join emp\_503003 e on d.dnumber=e.dno;

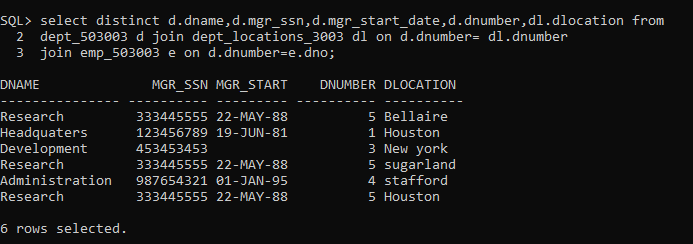




select distinct d.dname,d.mgr\_ssn,d.mgr\_start\_date,d.dnumber,dl.dlocation from

dept\_503003 d join dept\_locations\_3003 dl on d.dnumber= dl.dnumber

join emp\_503003 e on d.dnumber=e.dno;







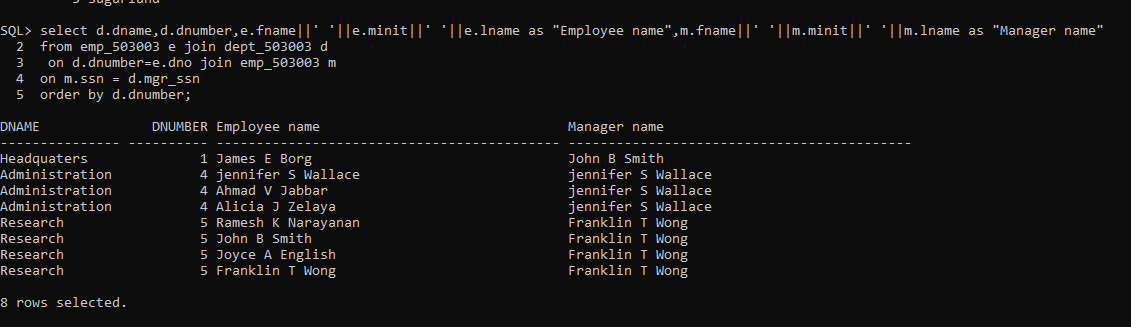
select d.dname,d.dnumber,e.fname||' '||e.minit||' '||e.lname as "Employee name",m.fname||' '||m.minit||' '||m.lname as "Manager name"

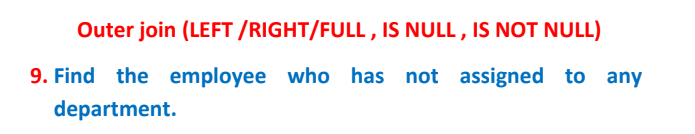
from emp\_503003 e join dept\_503003 d

on d.dnumber=e.dno join emp\_503003 m

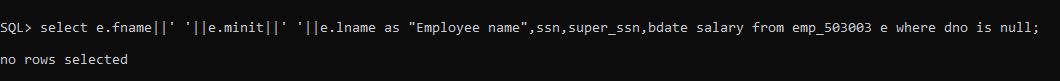
on m.ssn = d.mgr\_ssn

order by d.dnumber;





select e.fname||' '||e.minit||' '||e.lname as "Employee name",ssn,super\_ssn,bdate salary from emp\_503003 e where dno is null;





select d.dname,d.dnumber,dl.dlocation,d.mgr\_ssn

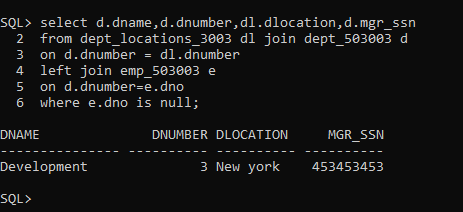
from dept\_locations\_3003 dl join dept\_503003 d

on d.dnumber = dl.dnumber

left join emp\_503003 e

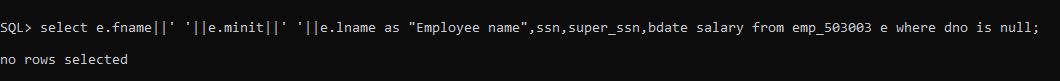
on d.dnumber=e.dno

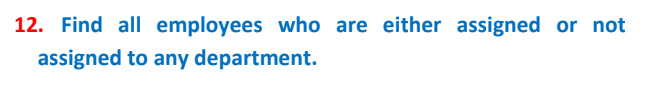
where e.dno is null;





select e.fname||' '||e.minit||' '||e.lname as "Employee name",ssn,super\_ssn,bdate salary from emp\_503003 e where dno is null;



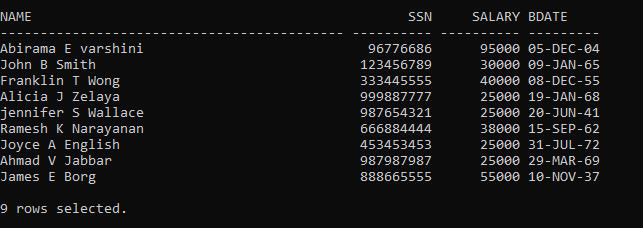


select fname||' '||minit||' '||lname as Name, ssn, salary, bdate

from emp\_503003 e

left join dept\_503003 d

on e.dno = d.dnumber;





select distinct d.dname, d.dnumber, dl.dlocation, d.mgr\_ssn

from dept\_locations\_3003 dl

join dept\_503003 d

on d.dnumber = dl.dnumber

left join emp\_503003 e

on d.dnumber = e.dno

order by d.dnumber;

