**FOREIGN KEY:**

SQL> connect system/system

Connected.

SQL> create table team

2 (

3 id number(3),

4 name

5

SQL> create table team

2 (

3 id number(3) primary key,

4 name varchar2(20) not null,

5 position varchar2(1)

6 );

Table created.

SQL> create table player

2 (

3 id number(3) references team(id),

4 player\_name varchar2(20),

5 height number(3)

6 );

Table created.

SQL> insert into team values(&a,&b,&c);

Enter value for a: 101

Enter value for b: mumbaiindians

Enter value for c: 'H'

old 1: insert into team values(&a,&b,&c)

new 1: insert into team values(101,mumbaiindians,'H')

insert into team values(101,mumbaiindians,'H')

\*

ERROR at line 1:

ORA-00984: column not allowed here

SQL> /

Enter value for a: 101

Enter value for b: 'mumbaiindians'

Enter value for c: 'H'

old 1: insert into team values(&a,&b,&c)

new 1: insert into team values(101,'mumbaiindians','H')

1 row created.

SQL> /

Enter value for a: 102

Enter value for b: 'chennai'

Enter value for c: 'K'

old 1: insert into team values(&a,&b,&c)

new 1: insert into team values(102,'chennai','K')

1 row created.

SQL> insert into player values(&a,&b,&c);

Enter value for a: 101

Enter value for b: 'Rohit sharma'

Enter value for c: 169

old 1: insert into player values(&a,&b,&c)

new 1: insert into player values(101,'Rohit sharma',169)

1 row created.

SQL> /

Enter value for a: 103

Enter value for b: 'Dhoni'

Enter value for c: 170

old 1: insert into player values(&a,&b,&c)

new 1: insert into player values(103,'Dhoni',170)

insert into player values(103,'Dhoni',170)

\*

ERROR at line 1:

ORA-02291: integrity constraint (SYSTEM.SYS\_C006999) violated - parent key not

found

SQL> create table cab

2 (

3 id number(4),

4 license\_plate varchar2(20),

5 car\_model\_id number(5),

6 manfacture\_year number(4),

7 primary key (id),

8 unique(license\_plate)

9 );

Table created.

SQL> create table driver

2 (

3 id number(4),

4 name varchar2(20),

5 dob date,

6 driving\_license\_no varchar2(20),

7 foreign key (id) references cab(id)

8 );

Table created.

SQL> desc cab;

Name Null? Type

----------------------------------------- -------- ----------------------------

ID NOT NULL NUMBER(4)

LICENSE\_PLATE VARCHAR2(20)

CAR\_MODEL\_ID NUMBER(5)

MANFACTURE\_YEAR NUMBER(4)

SQL> desc driver

Name Null? Type

----------------------------------------- -------- ----------------------------

ID NUMBER(4)

NAME VARCHAR2(20)

DOB DATE

DRIVING\_LICENSE\_NO VARCHAR2(20)

JOINS:

SQL> create table r1

2 (

3 first\_name varchar2(20),

4 last\_name varchar2(20),

5 salary number(6)

6 );

Table created.

SQL> create table r2

2 (

3 last\_name varchar2(20),

4 age number(2),

5 gender varchar2(1)

6 );

Table created.

SQL> insert into r1 values('Jahnavi','Talluri',50000);

1 row created.

SQL> insert into r1 values('Ganga','Senam',40000);

1 row created.

SQL> insert into r1 values('Yamuna','Buradakavi',30000);

1 row created.

SQL> insert into r2 values('Buradakavi',30,'F');

1 row created.

SQL> insert into r2 values('Chekuri',25,'M');

1 row created.

SQL> insert into r2 values('Talluri',28,'F');

1 row created.

SQL> select \* from r1;

FIRST\_NAME LAST\_NAME SALARY

-------------------- -------------------- ----------

Jahnavi Talluri 50000

Ganga Senam 40000

Yamuna Buradakavi 30000

SQL> select \* from r2;

LAST\_NAME AGE G

-------------------- ---------- -

Buradakavi 30 F

Chekuri 25 M

Talluri 28 F

SQL> select first\_name from r1,r2 where r1.last\_name=r2.last\_name; (Equi Join)

FIRST\_NAME

--------------------

Yamuna

Jahnavi

SQL> select first\_name,age from r1,r2 where r1.last\_name=r2.last\_name;

FIRST\_NAME AGE

-------------------- ----------

Yamuna 30

Jahnavi 28

SQL> select first\_name,age from r1,r2 where r1.last\_name=r2.last\_name(+); (left outer join)

FIRST\_NAME AGE

-------------------- ----------

Yamuna 30

Jahnavi 28

Ganga

SQL> select first\_name,age from r1,r2 where r1.last\_name(+)=r2.last\_name; (Right outer join)

FIRST\_NAME AGE

-------------------- ----------

Jahnavi 28

Yamuna 30

25

SQL> select first\_name,age from r1,r2; (Cartesian Join) m\*n rows

FIRST\_NAME AGE

-------------------- ----------

Jahnavi 30

Ganga 30

Yamuna 30

Jahnavi 25

Ganga 25

Yamuna 25

Jahnavi 28

Ganga 28

Yamuna 28

9 rows selected.

SQL> select surname.last\_name as last\_name,sex.gender as gender from r2 surname,r2 sex where surname.gender=sex.gender;

LAST\_NAME G

-------------------- - (Self Join)

Talluri F

Buradakavi F

Chekuri M

Talluri F

Buradakavi F

SQL> select surname.last\_name as last\_name,sex.gender as gender from r2 surname,r2 sex where surname.last\_name=sex.last\_name;

LAST\_NAME G

-------------------- -

Buradakavi F

Chekuri M

Talluri F

VIEWS:

SQL> create table empp

2 (

3 name varchar2(20),

4 age number(3),

5 salary number(5)

6 );

Table created.

SQL> insert into empp values('John',45,30000);

1 row created.

SQL> insert into empp values('Rakesh',35,15000);

1 row created.

SQL> insert into empp values('Karthi',40,45000);

1 row created.

SQL> insert into empp values('krithi',25,50000);

1 row created.

SQL> insert into empp values('Rishi',20,20000);

1 row created.

SQL> select \* from empp;

NAME AGE SALARY

-------------------- ---------- ----------

John 45 30000

Rakesh 35 15000

Karthi 40 45000

krithi 25 50000

Rishi 20 20000

SQL> create table emp1

2 (

3 e\_id number(3),

4 name varchar2(20),

5 age number(2),

6 salary number(5)

7 );

Table created.

SQL> insert into emp1 values(11,'John',45,30000);

1 row created.

SQL> insert into emp1 values(13,'Rakesh',35,15000);

1 row created.

SQL> insert into emp1 values(12,'krithi',25,50000);

1 row created.

SQL> insert into emp1 values(14,'Karthi',40,45000);

1 row created.

SQL> insert into emp1 values(15,'Rishi',20,20000);

1 row created.

SQL> select \* from emp1;

E\_ID NAME AGE SALARY

---------- -------------------- ---------- ----------

11 John 45 30000

13 Rakesh 35 15000

12 krithi 25 50000

14 Karthi 40 45000

15 Rishi 20 20000

SQL> create view virtual as select \* from emp1 where e\_id<14;

View created.

SQL> select \* from virtual;

E\_ID NAME AGE SALARY

---------- -------------------- ---------- ----------

11 John 45 30000

13 Rakesh 35 15000

12 krithi 25 50000

SQL> select view ccc as select name from emp1 where salary<30000;

select view ccc as select name from emp1 where salary<30000

\*

ERROR at line 1:

ORA-00936: missing expression

SQL> create view ccc as select name from emp1 where salary<30000;

View created.

SQL> select \* from ccc;

NAME

--------------------

Rakesh

Rishi

SQL> create or replace view virtual as select e\_id,name from emp1 where salary<30000;

View created.

SQL> select \* from virtual;

E\_ID NAME

---------- --------------------

13 Rakesh

15 Rishi