```
SQL> create table masteritem(itemno number,itemname varchar2(15),qty_on_hand
number);

Table created.

SQL>  create table tranitem(itemno number,qty_sold number);

Table created.

SQL> insert into masteritem values(1,'television',9000);

1 row created.

SQL> insert into masteritem values(2,'wmachine',6000);

1 row created.

SQL> insert into masteritem values(3,'monitor',2000);

1 row created.

SQL> insert into masteritem values(4,'dvdplayer',4000);

1 row created.

SQL> select *from masteritem;

    ITEMNO ITEMNAME        QTY_ON_HAND
---------- --------------- -----------
         1 television             9000
         2 wmachine               6000
         3 monitor                2000
         4 dvdplayer              4000

SQL> insert into tranitem values(1,900);

1 row created.

SQL> insert into tranitem values(2,400);

1 row created.

SQL> insert into tranitem values(1,200);

1 row created.

SQL> select *from tranitem;

    ITEMNO    QTY_SOLD
---------- ----------
```

```
                1          900
                2          400
                1          200

SQL> select m.itemno,m.itemname,m.qty_on_hand,t.qty_sold from masteritem m,tranitem
t where m.itemno =t.itemno;

    ITEMNO ITEMNAME         QTY_ON_HAND   QTY_SOLD
---------- --------------- ----------- ----------
         1 television             9000        200
         1 television             9000        900
         2 wmachine               6000        400

SQL> select m.itemno,m.itemname,m.qty_on_hand,t.qty_sold from masteritem m,tranitem
t where m.itemno <>t.itemno;

    ITEMNO ITEMNAME         QTY_ON_HAND   QTY_SOLD
---------- --------------- ----------- ----------
         2 wmachine               6000        900
         3 monitor                2000        900
         4 dvdplayer              4000        900
         1 television             9000        400
         3 monitor                2000        400
         4 dvdplayer              4000        400
         2 wmachine               6000        200
         3 monitor                2000        200
         4 dvdplayer              4000        200

9 rows selected.

SQL> select m.itemno,m.itemname,m.qty_on_hand,t.qty_sold from masteritem m,tranitem
t where m.itemno=t.itemno;

    ITEMNO ITEMNAME         QTY_ON_HAND   QTY_SOLD
---------- --------------- ----------- ----------
         1 television             9000        200
         1 television             9000        900
         2 wmachine               6000        400

SQL> insert into tranitem values(3,300);

1 row created.

SQL> select *from tranitem;

    ITEMNO   QTY_SOLD
---------- ----------
         1        900
         2        400
         1        200
```

```
          3          300

SQL> select m.itemno,m.itemname,m.qty_on_hand,t.qty_sold from masteritem m,tranitem
t where m.itemno =t.itemno;

    ITEMNO ITEMNAME        QTY_ON_HAND  QTY_SOLD
---------- --------------- ----------- ----------
         1 television             9000        200
         1 television             9000        900
         2 wmachine               6000        400
         3 monitor                2000        300

SQL> select m.itemno,m.itemname,m.qty_on_hand,t.qty_sold from masteritem m,tranitem
t where m.itemno<>t.itemno;

    ITEMNO ITEMNAME        QTY_ON_HAND  QTY_SOLD
---------- --------------- ----------- ----------
         1 television             9000        400
         1 television             9000        300
         2 wmachine               6000        900
         2 wmachine               6000        200
         2 wmachine               6000        300
         3 monitor                2000        900
         3 monitor                2000        400
         3 monitor                2000        200
         4 dvdplayer              4000        900
         4 dvdplayer              4000        400
         4 dvdplayer              4000        200

    ITEMNO ITEMNAME        QTY_ON_HAND  QTY_SOLD
---------- --------------- ----------- ----------
         4 dvdplayer              4000        300

12 rows selected.

SQL> insert into tranitem values(1,300);

1 row created.

SQL> select m.itemno,m.itemname,m.qty_on_hand,t.qty_sold from masteritem m,tranitem
t where m.itemno<>t.itemno;

    ITEMNO ITEMNAME        QTY_ON_HAND  QTY_SOLD
---------- --------------- ----------- ----------
         1 television             9000        400
         1 television             9000        300
         2 wmachine               6000        900
         2 wmachine               6000        200
         2 wmachine               6000        300
         2 wmachine               6000        300
```

```
        3 monitor                   2000        900
        3 monitor                   2000        400
        3 monitor                   2000        200
        3 monitor                   2000        300
        4 dvdplayer                 4000        900

    ITEMNO ITEMNAME          QTY_ON_HAND  QTY_SOLD
---------- --------------- ----------- ----------
        4 dvdplayer                 4000        400
        4 dvdplayer                 4000        200
        4 dvdplayer                 4000        300
        4 dvdplayer                 4000        300

15 rows selected.

SQL> select *from tranitem;

    ITEMNO   QTY_SOLD
---------- ----------
        1        900
        2        400
        1        200
        3        300
        1        300

SQL> select m.itemno,m.itemname,m.qty_on_hand,t.qty_sold from masteritem m,tranitem
t where m.itemno =t.itemno(+);

    ITEMNO ITEMNAME          QTY_ON_HAND  QTY_SOLD
---------- --------------- ----------- ----------
        1 television                9000        900
        2 wmachine                  6000        400
        1 television                9000        200
        3 monitor                   2000        300
        1 television                9000        300
        4 dvdplayer                 4000

6 rows selected.

SQL> Create table employee (employee_no varchar2(10) primary key check(Employee_no
like 'e%') , name varchar2(15) not null, manager_no varchar2(10));
Create table employee (employee_no varchar2(10) primary key check(Employee_no like
'e%') , name varchar2(15) not null, manager_no varchar2(10))
            *
ERROR at line 1:
ORA-00955: name is already used by an existing object


SQL> drop table employee;
```

```
Table dropped.

SQL> Create table employee (employee_no varchar2(10) primary key check(Employee_no
like 'e%') , name varchar2(15) not null, manager_no varchar2(10));

Table created.

SQL> desc employee;
 Name                                      Null?    Type
 ----------------------------------------- -------- -----------------------------
 EMPLOYEE_NO                               NOT NULL VARCHAR2(10)
 NAME                                      NOT NULL VARCHAR2(15)
 MANAGER_NO                                         VARCHAR2(10)

SQL> insert into employee values('e001','Arun','e002');

1 row created.

SQL> insert into employee values('e002','balaji','e003');

1 row created.

SQL> insert into employee values('e003','rajesh','e004');

1 row created.

SQL> insert into employee values('e004','srikanth','e005');

1 row created.

SQL> insert into employee values('1004','srikanth','e005');
insert into employee values('1004','srikanth','e005')
*
ERROR at line 1:
ORA-02290: check constraint (SYSTEM.SYS_C007036) violated


SQL> insert into employee values('e004','srikanth','e005');
insert into employee values('e004','srikanth','e005')
*
ERROR at line 1:
ORA-00001: unique constraint (SYSTEM.SYS_C007037) violated


SQL> select *from employee;

EMPLOYEE_N NAME            MANAGER_NO
---------- --------------- ----------
e001       Arun            e002
e002       balaji          e003
```

```
e003      rajesh         e004
e004      srikanth       e005

SQL> select emp.name,mngr.name manager from employee emp, employee mngr where
emp.manager_no = mngr.employee_no;

NAME            MANAGER
--------------- ---------------
Arun            balaji
balaji          rajesh
rajesh          srikanth

SQL> spool off;
```