**/\*TE CMPN A-27\*/**

**Expt: 5**

**Aim:** To Implement Nested Relational Model.

**Table Creation:**

**Step 1:**

SQL> create type Address\_27 as object(Street varchar(10),city varchar(10),pin\_no number(10));

2 /

Type created.

**Step 2:**

SQL> create type Address\_tab\_27 as table of Address\_27;

2 /

Type created.

**Step 3:**

SQL> create table Emp\_027(e\_id varchar(10),e\_name varchar(10),e\_add Address\_tab\_27) nested table e\_add store as xyz ;

Table created.

**Step 4:**

SQL> insert into Emp\_027 values ('E001','Flevy',Address\_tab\_27(Address\_27('CH Road','Mumbai',401203),Address\_27('RN Road','Mumbai',400100)));

1 row created.

SQL> insert into Emp\_027 values ('E003','Stalen',Address\_tab\_27(Address\_27('RA Road','Mumbai',400013)));

1 row created.

SQL> insert into Emp\_027 values ('E002','Glancy',Address\_tab\_27(Address\_27('PV Road','Mumbai',400013),Address\_27('JK Street','Pune',407201),Address\_27('Link Park','Banglore',410605)));

1 row created.

SQL> insert into Emp\_027 values ('E004','Glory',Address\_tab\_27(Address\_27('Hill Road','Mumbai',402504),Address\_27('ST Street','Banglore',410205)));

1 row created.

**Step 5:**

SQL> select \* from Emp\_027;

E\_ID E\_NAME

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

E\_ADD(STREET, CITY, PIN\_NO)

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

E001 Flevy

ADDRESS\_TAB\_27(ADDRESS\_27('CH Road', 'Mumbai', 401203), ADDRESS\_27('RN Road', 'M

umbai', 400100))

E003 Stalen

ADDRESS\_TAB\_27(ADDRESS\_27('RA Road', 'Mumbai', 400013))

E002 Glancy

ADDRESS\_TAB\_27(ADDRESS\_27('PV Road', 'Mumbai', 400013), ADDRESS\_27('JK Street',

E\_ID E\_NAME

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

E\_ADD(STREET, CITY, PIN\_NO)

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

'Pune', 407201), ADDRESS\_27('Link Park', 'Banglore', 410605))

E004 Glory

ADDRESS\_TAB\_27(ADDRESS\_27('Hill Road', 'Mumbai', 402504), ADDRESS\_27('ST Street'

, 'Banglore', 410205))

**Queries:**

1. **List all the address for employee name is Flevy?**

SQL> select e\_add from Emp\_027 where e\_name='Flevy';

E\_ADD(STREET, CITY, PIN\_NO)

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

ADDRESS\_TAB\_27(ADDRESS\_27('CH Road', 'Mumbai', 401203), ADDRESS\_27('RN Road', 'M

umbai', 400100))

1. **Find the city for employee name Glancy ?**

SQL> select p.city from table(Select e\_add from Emp\_027 where e\_name ='Glancy')p;

CITY

----------

Mumbai

Pune

Banglore

1. **Find all the details for employee where city=’Banglore’ ?**

SQL> select a.e\_id,a.e\_name,p.\* from Emp\_027 a,table (a.e\_add)p where p.city='Banglore';

E\_ID E\_NAME STREET CITY PIN\_NO

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

E002 Glancy Link Park Banglore 410605

E004 Glory ST Street Banglore 410205

1. **List all the employee details with all their information.**

SQL> select a.e\_id,a.e\_name,p.street,p.city,p.pin\_no from Emp\_027 a,table (a.e\_add)p;

E\_ID E\_NAME STREET CITY PIN\_NO

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

E001 Flevy CH Road Mumbai 401203

E001 Flevy RN Road Mumbai 400100

E003 Stalen RA Road Mumbai 400013

E002 Glancy PV Road Mumbai 400013

E002 Glancy JK Street Pune 407201

E002 Glancy Link Park Banglore 410605

E004 Glory Hill Road Mumbai 402504

E004 Glory ST Street Banglore 410205

8 rows selected.

1. **Update Street value as MG Road for e\_id=’E003’.**

SQL> Update table(select e.e\_add from Emp\_027 e where e.e\_id='E003')p set street='MG Road';

1 row updated.

SQL> select \* from Emp\_027;

E\_ID E\_NAME

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

E\_ADD(STREET, CITY, PIN\_NO)

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

E001 Flevy

ADDRESS\_TAB\_27(ADDRESS\_27('CH Road', 'Mumbai', 401203), ADDRESS\_27('RN Road', 'M

umbai', 400100))

E003 Stalen

ADDRESS\_TAB\_27(ADDRESS\_27('MG Road', 'Mumbai', 400013))

E002 Glancy

ADDRESS\_TAB\_27(ADDRESS\_27('PV Road', 'Mumbai', 400013), ADDRESS\_27('JK Street',

E\_ID E\_NAME

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

E\_ADD(STREET, CITY, PIN\_NO)

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

'Pune', 407201), ADDRESS\_27('Link Park', 'Banglore', 410605))

E004 Glory

ADDRESS\_TAB\_27(ADDRESS\_27('Hill Road', 'Mumbai', 402504), ADDRESS\_27('ST Street'

, 'Banglore', 410205))

**AND**

SQL> Update table(select e.e\_add from Emp\_027 e where e.e\_id='E001')p set street='MG Road' where p.city='Mumbai';

2 rows updated.

SQL> select \* from Emp\_027;

E\_ID E\_NAME

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

E\_ADD(STREET, CITY, PIN\_NO)

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

E001 Flevy

ADDRESS\_TAB\_27(ADDRESS\_27('MG Road', 'Mumbai', 401203), ADDRESS\_27('MG Road', 'M

umbai', 400100))

E003 Stalen

ADDRESS\_TAB\_27(ADDRESS\_27('MG Road', 'Mumbai', 400013))

E002 Glancy

ADDRESS\_TAB\_27(ADDRESS\_27('PV Road', 'Mumbai', 400013), ADDRESS\_27('JK Street',

E\_ID E\_NAME

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

E\_ADD(STREET, CITY, PIN\_NO)

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

'Pune', 407201), ADDRESS\_27('Link Park', 'Banglore', 410605))

E004 Glory

ADDRESS\_TAB\_27(ADDRESS\_27('Hill Road', 'Mumbai', 402504), ADDRESS\_27('ST Street'

, 'Banglore', 410205))

E005 Flavian

ADDRESS\_TAB\_27()

1. **Insert Null values in a Nested Table.**

SQL> insert into Emp\_027 values ('E005','Flavian',Address\_tab\_27());

1 row created.

SQL> select \* from Emp\_027;

E\_ID E\_NAME

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

E\_ADD(STREET, CITY, PIN\_NO)

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

E001 Flevy

ADDRESS\_TAB\_27(ADDRESS\_27('CH Road', 'Mumbai', 401203), ADDRESS\_27('RN Road', 'M

umbai', 400100))

E003 Stalen

ADDRESS\_TAB\_27(ADDRESS\_27('MG Road', 'Mumbai', 400013))

E002 Glancy

ADDRESS\_TAB\_27(ADDRESS\_27('PV Road', 'Mumbai', 400013), ADDRESS\_27('JK Street',

E\_ID E\_NAME

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

E\_ADD(STREET, CITY, PIN\_NO)

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

'Pune', 407201), ADDRESS\_27('Link Park', 'Banglore', 410605))

E004 Glory

ADDRESS\_TAB\_27(ADDRESS\_27('Hill Road', 'Mumbai', 402504), ADDRESS\_27('ST Street'

, 'Banglore', 410205))

E005 Flavian

ADDRESS\_TAB\_27()