**::::::COMPOSITE VALUES::::::**

CREATE TYPE name as object(

fname varchar(10),

lname varchar(10)

);

CREATE TABLE employee(

eid number(10),

ename name,

salary number(10)

);

insert into employee values(1, new name('Sachin','Gaja'),6000);

insert into employee values(2, new name('Samir','Nasri'),12000);

insert into employee values(3, new name('Lionel','Messi'),35000);

insert into employee values(4, new name('Cristiano','Ronaldo'),33000);

insert into employee values(5, new name('Roberto','Carlos'),37000);

insert into employee values(7, new name('DaLima','Ronaldo'),39000);

Query:- **select e1.ename.fname from employee e1;**

Output:-



**::::VARRAY:::**

create type phone\_no\_type as varray(2) of number(10)

create table phone\_book

(

eid number(5),

ph\_no phone\_no\_type

);

INSERT INTO phone\_book VALUES ( 1, phone\_no\_type(9912345,6654321))

INSERT INTO phone\_book VALUES ( 2, phone\_no\_type(9355566,6546466))

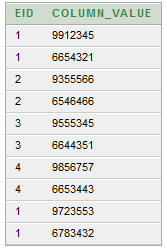
INSERT INTO phone\_book VALUES ( 3, phone\_no\_type(9555345,6644351))

INSERT INTO phone\_book VALUES ( 4, phone\_no\_type(9856757,6653443))

INSERT INTO phone\_book VALUES ( 1, phone\_no\_type(9723553,6783432))

Query:- **SELECT p1.eid,p2.\* FROM phone\_book p1, table(p1.ph\_no) p2**

Output:-



**::::::NESTING::::::**

CREATE TYPE address\_t as object(

street varchar(10),

city varchar(10)

);

create type address\_t1 as table of address\_t

CREATE TABLE customer(

cid number(10),

cname varchar(10),

caddress address\_t1)

nested table caddress store as customer\_address;

INSERT INTO customer values (1,'David',address\_t1(address\_t('St.Peters','NewYork')));

INSERT INTO customer values (2,'Dwayne',address\_t1(address\_t('St.Michael','NewJersey')));

INSERT INTO customer values (3,'Robert',address\_t1(address\_t('St.Xavier','Birmingham')));

INSERT INTO customer values (4,'Scarlett',address\_t1(address\_t('Loyola','Paris')));

INSERT INTO customer values (5,'Luis',address\_t1(address\_t('Downtown','Liverpool')));

Query:- **SELECT c1.cid,c1.cname,c2.\* FROM customer c1, table(c1.caddress) c2;**

Output:-

