**VIEW**

1. create view studentlist as

select \*

from STUDENTLOGIN

where role='Student'

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

1. create view instructorlist as

select \*

from STUDENTLOGIN

where role='Instructor'

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

1. create view viewdeptstudent as

select name,email,studentlogin.role,dno

from studentlogin,deptadms

where studentlogin.role=deptadms.role

and dno='10'

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

1. create view viewdeptinstructor as

select name,email,studentlogin.role,dno

from studentlogin,deptadms

where studentlogin.role=deptadms.role

and dno='20'

**FUNCTION**

1.

CREATE TYPE studentsearch\_row\_type as OBJECT (

NAME VARCHAR2(200),

EMAIL VARCHAR2(200),

PHONE VARCHAR2(200),

ROLE VARCHAR2(200)

);

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

CREATE TYPE studentsearch \_table\_type as TABLE OF studentsearch\_row\_type;

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

CREATE OR REPLACE FUNCTION get\_all\_ studentsearch \_objects(p\_sname varchar2)

RETURN studentsearch \_table\_type PIPELINED AS

BEGIN

FOR cur IN (SELECT \* FROM STUDENTLOGIN where name = p\_sname)

LOOP

PIPE ROW(studentsearch \_row\_type(cur.name,cur.email,cur.phone,cur.role));

END LOOP;

RETURN;

END;

2.

CREATE TYPE emailsearch\_row\_type as OBJECT (

NAME VARCHAR2(200),

EMAIL VARCHAR2(200),

PHONE VARCHAR2(200),

ROLE VARCHAR2(200)

);

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

CREATE TYPE emailsearch\_table\_type as TABLE OF emailsearch\_row\_type;

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

CREATE OR REPLACE FUNCTION get\_all\_emailsearch\_objects(s\_email varchar2)

RETURN emailsearch\_table\_type PIPELINED AS

BEGIN

FOR cur IN (SELECT \* FROM STUDENTLOGIN where email = s\_email)

LOOP

PIPE ROW(emailsearch\_row\_type(cur.name,cur.email,cur.phone,cur.role));

END LOOP;

RETURN;

END;

3.

create or replace type studentlogin\_obj

as object

(

NAME VARCHAR2(200),

PASSWORD VARCHAR2(200),

PHONE VARCHAR2(200),

ROLE VARCHAR2(200)

)

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

create or replace type studentlogin\_tbl

is table of studentlogin\_obj

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

create or replace function login\_list\_type(s\_email varchar2)

return studentlogin\_tbl

is

U\_NAME VARCHAR2(200);

U\_PASSWORD VARCHAR2(200);

U\_PHONE VARCHAR2(200);

U\_ROLE VARCHAR2(200);

studentlogin\_details studentlogin\_tbl := studentlogin\_tbl();

begin

studentlogin\_details.EXTEND();

select NAME,PASSWORD,PHONE,ROLE

into U\_NAME,U\_PASSWORD,U\_PHONE,U\_ROLE from STUDENTLOGIN

where email = s\_email AND role = 'Student';

studentlogin\_details (1) := studentlogin\_obj(U\_NAME,U\_PASSWORD,U\_PHONE,U\_ROLE);

return studentlogin\_details;

end;

4. create or replace type studentlogin2\_obj

as object

(

NAME VARCHAR2(200),

PASSWORD VARCHAR2(200),

PHONE VARCHAR2(200),

ROLE VARCHAR2(200)

)

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

create or replace type studentlogin2\_tbl

is table of studentlogin2\_obj

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

create or replace function login2\_list\_type(s\_email varchar2)

return studentlogin2\_tbl

is

U\_NAME VARCHAR2(200);

U\_PASSWORD VARCHAR2(200);

U\_PHONE VARCHAR2(200);

U\_ROLE VARCHAR2(200);

Studentlogin2\_details studentlogin2\_tbl := studentlogin2\_tbl();

begin

studentlogin2\_details.EXTEND();

select NAME,PASSWORD,PHONE,ROLE

into U\_NAME,U\_PASSWORD,U\_PHONE,U\_ROLE from STUDENTLOGIN

where email = s\_email AND role = 'Instructor';

studentlogin2\_details (1) := studentlogin2\_obj(U\_NAME,U\_PASSWORD,U\_PHONE,U\_ROLE);

return studentlogin2\_details;

end;

**Trigger**

1. create or replace trigger login\_secure

before insert on STUDENTLOGIN

Begin

if to\_char(sysdate,'HH24') not between '8' and '5'

or to\_char(sysdate,'DAY') in ('FRIDAY','SATURDAY')

then

raise\_application\_error (-20202,'Please come in regular working time');

end if;

end;

1. create or replace trigger loginupdate\_secure

before update on STUDENTLOGIN

Begin

if to\_char(sysdate,'HH24') not between '8' and '5'

or to\_char(sysdate,'DAY') in ('FRIDAY','SATURDAY')

then

raise\_application\_error (-20202,'Please come in regular working time');

end if;

end;

1. create or replace trigger logindelete\_secure

before delete on STUDENTLOGIN

Begin

if to\_char(sysdate,'HH24') not between '8' and '5'

or to\_char(sysdate,'DAY') in ('FRIDAY','SATURDAY')

then

raise\_application\_error (-20202,'Please come in regular working time');

end if;

end;

1. create or replace trigger dept\_secure

before insert on deptadms

Begin

if to\_char(sysdate,'HH24') not between '8' and '5'

or to\_char(sysdate,'DAY') in ('FRIDAY','SATURDAY')

then

raise\_application\_error (-20202,'Please come in regular working time');

end if;

end;

1. create or replace trigger deptupdate\_secure

before update on deptadms

Begin

if to\_char(sysdate,'HH24') not between '8' and '5'

or to\_char(sysdate,'DAY') in ('FRIDAY','SATURDAY')

then

raise\_application\_error (-20202,'Please come in regular working time');

end if;

end;

1. create or replace trigger deptdelete\_secure

before delete on deptadms

Begin

if to\_char(sysdate,'HH24') not between '8' and '5'

or to\_char(sysdate,'DAY') in ('FRIDAY','SATURDAY')

then

raise\_application\_error (-20202,'Please come in regular working time');

end if;

end;