**PL/SQL for DBMS Project:**

**1: Trigger**

**When movie\_id/crew\_id is changed, update it in referencing tables.**

SQL> create or replace trigger tg1 after update on movie for each row

2 declare

3 old\_movieid movie.movie\_id%type;

4 new\_movieid movie.movie\_id%type;

5 begin

6 old\_movieid:=:old.movie\_id;

7 new\_movieid:=:new.movie\_id;

8 update language set movie\_id=new\_movieid where movie\_id=old\_movieid;

9 update crew set movie\_id=new\_movieid where movie\_id=old\_movieid;

10 update action set movie\_id=new\_movieid where movie\_id=old\_movieid;

11 update comedy set movie\_id=new\_movieid where movie\_id=old\_movieid;

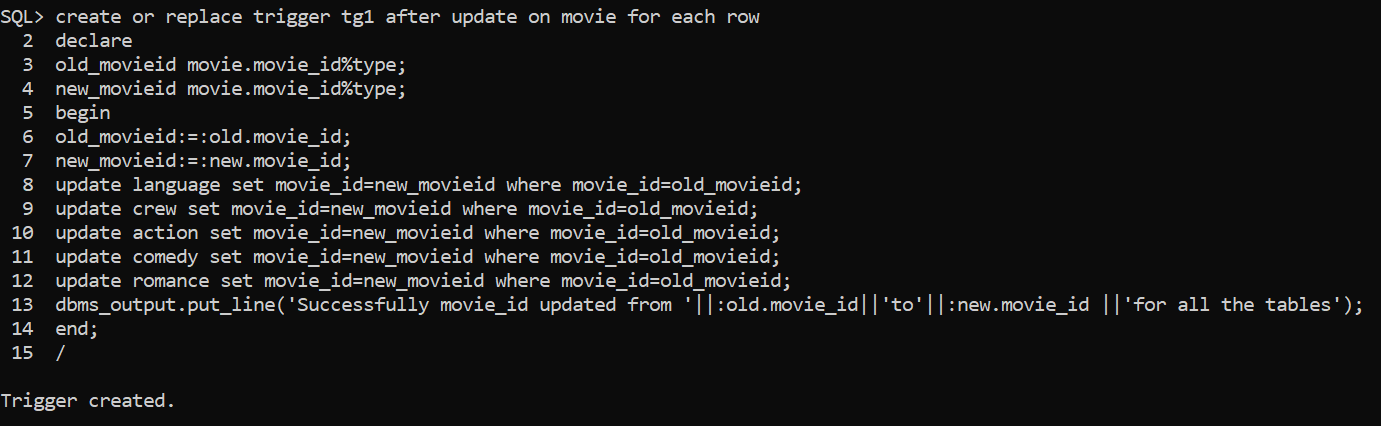
12 update romance set movie\_id=new\_movieid where movie\_id=old\_movieid;

13 dbms\_output.put\_line('Successfully movie\_id updated from '||:old.movie\_id||'to'||:new.movie\_id ||'for all the tables');

14 end;

15 /

Trigger created.



**Before activating trigger:**

SQL> select movie\_id, name from movie;

MOVIE\_ID NAME

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

101 Avengers\_end\_game

102 Extraction

103 Bahubali

104 Gully Boy

105 Morbius

106 Made\_In\_China

107 Entertainment

7 rows selected.

SQL> select \* from language;

MOVIE\_ID LANGUAGE

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

101 English

101 Hindi

102 English

102 Hindi

103 English

103 Hindi

104 English

104 Hindi

105 English

105 Tamil

105 Telugu

MOVIE\_ID LANGUAGE

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

106 Hindi

107 English

107 Tamil

14 rows selected.

SQL> select movie\_id,director\_name from crew;

MOVIE\_ID DIRECTOR\_NAME

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

101 Anthony\_russo

102 Sam\_Hargrave

103 Rajmouli

104 Zoya\_Akhtar

105 Daniel\_espino

106 Anuj\_Rakesh

107 Sajid

7 rows selected.

SQL> select \* from action;

M\_ID NAME MOVIE\_ID

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

1 Avengers\_end\_game 101

2 Extraction 102

3 Bahubali 103

4 Morbius 105

SQL> select \* from comedy;

M\_ID NAME MOVIE\_ID

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

1 made in china 106

2 Entertainment 107

SQL> select \* from romance;

M\_ID NAME MOVIE\_ID

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

1 gully boy 104

2 made in china 106

**After Activating Trigger:**

SQL> update movie set movie\_id=100 where movie\_id=101;

Successfully movie\_id updated from 101to100for all the tables

1 row updated.

SQL> select movie\_id, name from movie;

MOVIE\_ID NAME

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

100 Avengers\_end\_game

102 Extraction

103 Bahubali

104 Gully Boy

105 Morbius

106 Made\_In\_China

107 Entertainment

7 rows selected.

SQL> select \* from language;

MOVIE\_ID LANGUAGE

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

100 English

100 Hindi

102 English

102 Hindi

103 English

103 Hindi

104 English

104 Hindi

105 English

105 Tamil

105 Telugu

MOVIE\_ID LANGUAGE

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

106 Hindi

107 English

107 Tamil

14 rows selected.

SQL> select movie\_id,director\_name from crew;

MOVIE\_ID DIRECTOR\_NAME

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

100 Anthony\_russo

102 Sam\_Hargrave

103 Rajmouli

104 Zoya\_Akhtar

105 Daniel\_espino

106 Anuj\_Rakesh

107 Sajid

7 rows selected.

SQL> select \* from action;

M\_ID NAME MOVIE\_ID

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

1 Avengers\_end\_game 100

2 Extraction 102

3 Bahubali 103

4 Morbius 105

**2: Procedure**

**Name of the movie for the given IMDB and RadioMirchi ratings.**

SQL> set serveroutput on;

SQL> Create or replace procedure p1 (IM number, RM number) is

2 cursor pas\_cur is

3 select name from movie where movie\_id in (select movie\_id from ratings where IMDB=IM and Radio\_mirchi=RM);

4 pas\_rec pas\_cur%rowtype;

5 begin

6 open pas\_cur;

7 loop

8 fetch pas\_cur into pas\_rec;

9 exit when pas\_cur%notfound;

10 dbms\_output.put\_line(pas\_rec.name);

11 end loop;

12 close pas\_cur;

13 end;

14 /

Procedure created.

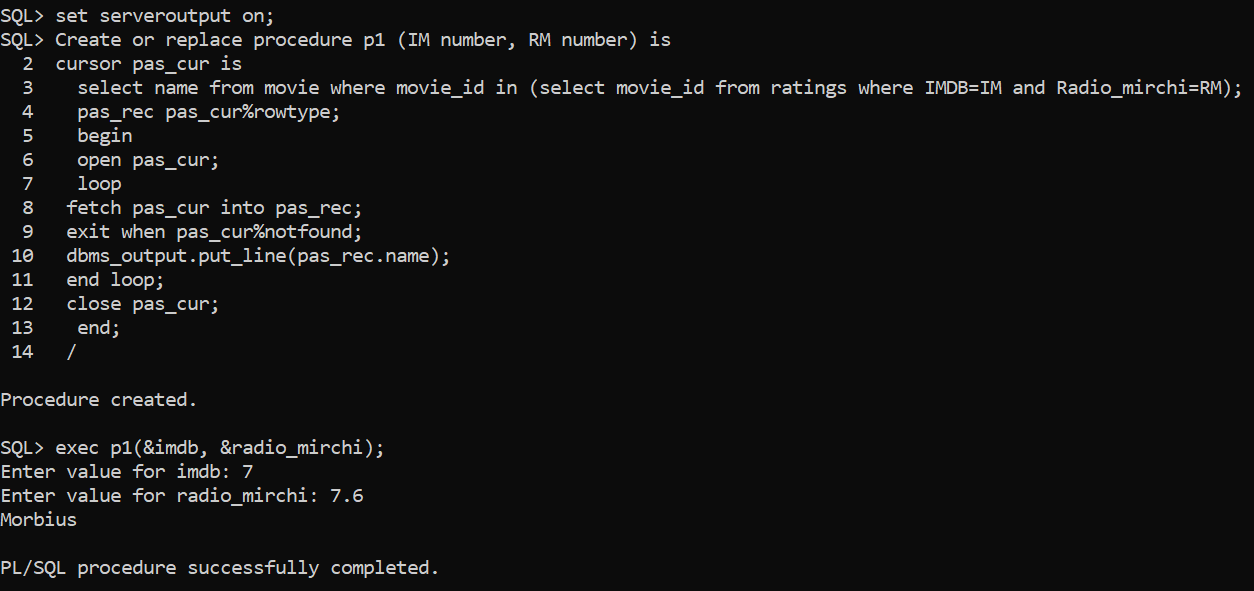
SQL> exec p1(&imdb, &radio\_mirchi);

Enter value for imdb: 7

Enter value for radio\_mirchi: 7.6

Morbius

PL/SQL procedure successfully completed.



Create or replace procedure p1 (IM number, RM number) is

cursor pas\_cur is

select name from movie where movie\_id in (select movie\_id from ratings where IMDB=IM and Radio\_mirchi=RM);

pas\_rec pas\_cur%rowtype;

begin

open pas\_cur;

loop

fetch pas\_cur into pas\_rec;

exit when pas\_cur%notfound;

dbms\_output.put\_line(pas\_rec.name);

end loop;

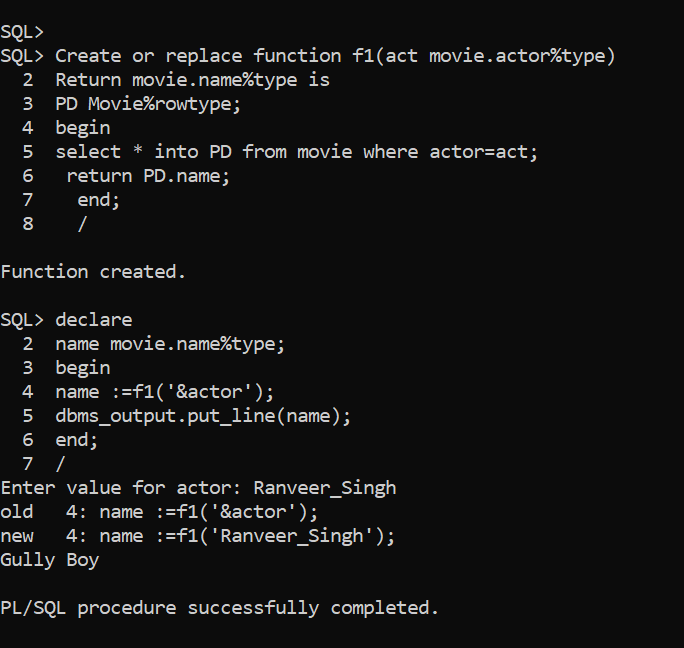
close pas\_cur;

end;

/

**3: Function**

**Get the actor and return the name of the movie.**



SQL> Create or replace function f1(act movie.actor%type)

2 Return movie.name%type is

3 PD Movie%rowtype;

4 begin

5 select \* into PD from movie where actor=act;

6 return PD.name;

7 end;

8 /

Function created.

SQL> declare

2 name movie.name%type;

3 begin

4 name :=f1('&actor');

5 dbms\_output.put\_line(name);

6 end;

7 /

Enter value for actor: Ranveer\_Singh

old 4: name :=f1('&actor');

new 4: name :=f1('Ranveer\_Singh');

Gully Boy

PL/SQL procedure successfully completed.

Create or replace function f1(act movie.actor%type)

Return movie.name%type is

PD Movie%rowtype;

begin

select \* into PD from movie where actor=act;

return PD.name;

end;

/

declare

name movie.name%type;

begin

name :=f1('&actor');

dbms\_output.put\_line(name);

end;

/