CREATE TABLE ACTOR (ACT\_ID NUMBER (3),

ACT\_NAME VARCHAR (20),

ACT\_GENDER CHAR (1),

CONSTRAINT PKAC PRIMARY KEY(ACT\_ID));

CREATE TABLE DIRECTOR(

DIR\_ID NUMBER (3),

DIR\_NAME VARCHAR (20),

DIR\_PHONE NUMBER (10),

CONSTRAINT PKDI PRIMARY KEY(DIR\_ID));

CREATE TABLE MOVIES (

MOV\_ID NUMBER (4),

MOV\_TITLE VARCHAR (25),

MOV\_YEAR NUMBER (4),

MOV\_LANG VARCHAR (12),

DIR\_ID NUMBER (3),

CONSTRAINT PKMV PRIMARY KEY(MOV\_ID),

CONSTRAINT FKMV FOREIGN KEY(DIR\_ID) REFERENCES DIRECTOR(DIR\_ID));

CREATE TABLE MOVIE\_CAST (

ACT\_ID NUMBER (3),

MOV\_ID NUMBER (4),

ROLE VARCHAR (10),

CONSTRAINT PKMC PRIMARY KEY(ACT\_ID, MOV\_ID),

CONSTRAINT FKMC FOREIGN KEY(ACT\_ID) REFERENCES ACTOR(ACT\_ID),

CONSTRAINT FKMCC FOREIGN KEY(MOV\_ID) REFERENCES MOVIES(MOV\_ID));

CREATE TABLE RATING (

MOV\_ID NUMBER (4),

REV\_STARS INTEGER,

CONSTRAINT FKRA FOREIGN KEY(MOV\_ID) REFERENCES MOVIES(MOV\_ID));

**Queries**

1. List the titles of all movies directed by ‘Hitchcock’.

SELECT M.MOV\_TITLE

FROM MOVIES M,DIRECTOR D

WHERE M.DIR\_ID=D.DIR\_ID AND D.DIR\_NAME = 'HITCHCOCK';

2. Find the movie names where one or more actors acted in two or more movies.

SELECT MOV\_TITLE

FROM MOVIES M, MOVIE\_CAST MV

WHERE M.MOV\_ID=MV.MOV\_ID AND ACT\_ID IN (SELECT ACT\_ID

FROM MOVIE\_CAST GROUP BY ACT\_ID

HAVING COUNT (ACT\_ID)>=1)

GROUP BY MOV\_TITLE

HAVING COUNT (\*)>1;

3. List all actors who acted in a movie before 2000 and also in a movie after 2015 (use JOIN

operation).

SELECT A.ACT\_NAME

FROM ACTOR A

JOIN MOVIE\_CAST C

ON A.ACT\_ID=C.ACT\_ID

JOIN MOVIES M

ON C.MOV\_ID=M.MOV\_ID

WHERE M.MOV\_YEAR NOT BETWEEN 2000 AND 2015;

4.Find the title of movies and number of stars for each

movie that has at least one rating and find the highest

FROM MOVIES

number of stars that movie received. Sort the result by movie title.

SELECT MOV\_TITLE, MAX(REV\_STARS)

INNER JOIN RATING USING (MOV\_ID)

GROUP BY MOV\_TITLE

HAVING MAX (REV\_STARS)>0

ORDER BY MOV\_TITLE;

5. Update rating of all movies directed by ‘Steven Spielberg’ to 5

UPDATE RATING

SET REV\_STARS=5

WHERE MOV\_ID IN (SELECT M.MOV\_ID FROM MOVIES M,DIRECTOR D

WHERE M.DIR\_ID=D.DIR\_ID AND

D.DIR\_NAME = 'STEVEN SPIELBERG');

BEFORE UPDATING

SQL> SELECT \* FROM RATING;

AFTER UPDATING

SQL> SELECT \* FROM RATING;