

# Case Study

## Section A

1. Create Database project\_movie\_data and deploy table data according to ER diagram.
2. Create 9 tables which are presented in ER model and load the data with their foreign key and primary key values.
3. Write a query in SQL to list the Horror movies?

```
SELECT MOV_TITLE FROM MOVIE WHERE MOV_ID =(SELECT MOV_ID  
FROM MOVIE_GENRES WHERE GEN_ID = (SELECT GEN_ID  
FROM GENRES WHERE GEN_TITLE = 'Horror'));
```

---

MOV_TITLE
The Innocents

4. Write a query in SQL to find the name of all reviewers who have rated 8 or more stars?

```
SELECT REV_NAME FROM REVIEWER WHERE REV_ID IN (SELECT REV_ID  
FROM RATING WHERE REV_STARS >= 8 );
```

---

REV_NAME
Righty Sock
Flagrant Baronessa
(null)
Simon Wright
Mike Salvati
(null)
Hannah Steele
Brandt Sponseller

5. Write a query in SQL to list all the information of the actors who played a role in the movie 'Deliverance'.

```
SELECT * FROM ACTOR WHERE ACT_ID = (SELECT ACT_ID FROM  
MOVIE_CAST  
WHERE MOV_ID=(SELECT MOV_ID FROM MOVIE WHERE  
MOV_TITLE='Deliverance'));
```

ACT_ID	ACT_FNAME	ACT_LNAME	ACT_GENDER
117	Jon	Voight	M

6. Write a query in SQL to find the name of the director (first and last names) who directed a movie that casted a role for 'Eyes Wide Shut'. (using subquery)

```
SELECT DIR_FNAME, DIR_LNAME FROM DIRECTOR  
WHERE DIR_ID = (SELECT DIR_ID FROM MOVIE_DIRECTION  
WHERE MOV_ID = (SELECT MOV_ID FROM MOVIE WHERE MOV_TITLE  
='Eyes Wide Shut'));
```

DIR_FNAME	DIR_LNAME
Stanley	Kubrick

7. Write a query in SQL to find the movie title, year, date of release, director and actor for those movies which reviewer is 'Neal Wruck'

```
SELECT M.MOV_TITLE, M.MOV_YEAR, M.MOV_DT_REL,  
CONCAT (D.DIR_FNAME,D.DIR_LNAME) AS DIR_NAME,  
CONCAT(A.ACT_FNAME,A.ACT_LNAME) AS ACT_NAME  
FROM ACTOR A NATURAL JOIN MOVIE_CAST MC  
NATURAL JOIN MOVIE M NATURAL JOIN  
MOVIE_DIRECTION MD NATURAL JOIN DIRECTOR D  
NATURAL JOIN MOVIE_DIRECTION MD  
NATURAL JOIN RATING R NATURAL JOIN REVIEWER W  
WHERE W.REV_NAME='Neal Wruck';
```

```
SELECT MOV_TITLE, MOV_YEAR, MOV_DT_REL,  
CONCAT(DIR_FNAME, DIR_LNAME) DIRECTORNAME,  
CONCAT(ACT_FNAME, ACT_LNAME) ACTORNAME  
FROM MOVIE A, MOVIE_DIRECTION B, DIRECTOR C,  
RATING D, REVIEWER E, ACTOR F, MOVIE_CAST G  
WHERE A.MOV_ID=B.MOV_ID  
AND B.DIR_ID=C.DIR_ID  
AND A.MOV_ID=D.MOV_ID  
AND D.REV_ID=E.REV_ID  
AND A.MOV_ID=G.MOV_ID  
AND G.ACT_ID=F.ACT_ID  
AND E.REV_NAME = 'Neal Wruck';
```

MOV_TITLE	MOV_YEAR	MOV_DT_REL	DIRECTORNAME	ACTORNAME
Chinatown	1974	09-AUG-74	RomanPolanski	JackNicholson

8. Write a query in SQL to find all the years which produced at least one movie and that received a rating of more than 4 stars.

```
SELECT DISTINCT MOV_YEAR FROM MOVIE  
WHERE MOV_ID IN (SELECT MOV_ID FROM RATING  
WHERE REV_STARS>4);
```

MOV_YEAR
1997
1986
2009
1982
1999
2001
1962
1977
1958
1995
2004
1961
2008

9. Write a query in SQL to find the name of all movies who have rated their ratings with a NULL value

```
SELECT MOV_TITLE FROM MOVIE WHERE MOV_ID IN (SELECT MOV_ID FROM  
RATING WHERE NUM_O_RATINGS IS NULL);
```

MOV_TITLE
Princess Mononoke
Avatar

10. Write a query in SQL to find the name of movies who were directed by 'David'

```
SELECT MOV_TITLE FROM MOVIE
WHERE MOV_ID IN (SELECT MOV_ID FROM MOVIE_DIRECTION
WHERE DIR_ID IN (SELECT DIR_ID FROM DIRECTOR WHERE
DIR_FNAME ='DAVID' OR DIR_LNAME = 'David'));
```

---

MOV_TITLE
Lawrence of Arabia

11. Write a query in SQL to list the first and last names of all the actors who were cast in the movie 'Boogie Nights', and the roles they played in that production.

```
SELECT ACT_FNAME,ACT_LNAME FROM ACTOR
WHERE ACT_ID IN (SELECT ACT_ID FROM MOVIE_CAST WHERE MOV_ID IN
(SELECT MOV_ID
FROM MOVIE WHERE MOV_TITLE ='The Boogie Nights'));
```

ACT_FNAME	ACT_LNAME
Mark	Wahlberg

12. Find the name of the actor who have worked in more than one movie.

```
SELECT CONCAT(ACT_FNAME,ACT_LNAME) AS ACTOR_NAME
FROM ACTOR WHERE ACT_ID IN (SELECT ACT_ID FROM MOVIE_CAST
GROUP BY ACT_ID HAVING COUNT(ACT_ID)>1);
```

---

ACTOR_NAME
KevinSpacey

