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.

<p align="center">**ACTOR-TABLE**</p>

CREATE TABLE ACTOR(ACT_ID NUMBER(4) NOT NULL PRIMARY KEY,

ACT_FNAME VARCHAR2(20) NOT NULL,

ACT_LNAME VARCHAR2(20) NOT NULL,

ACT_GENDER VARCHAR2(1) NOT NULL);

DESC ACTOR;

INSERT INTO ACTOR VALUES(101, 'James', 'Stewart', 'M');

INSERT INTO ACTOR VALUES(102, 'Deborah', 'Kerr', 'F');

INSERT INTO ACTOR VALUES(103, 'Peter', 'OToole', 'M');

INSERT INTO ACTOR VALUES(104, 'Robert', 'De Niro', 'M');

INSERT INTO ACTOR VALUES(105, 'F.Murray', 'Abraham', 'M');

INSERT INTO ACTOR VALUES(106, 'Harrison', ' Ford', 'M');

INSERT INTO ACTOR VALUES(107, 'Nicole', 'Kidman', 'F');

INSERT INTO ACTOR VALUES(108, 'Stephen', 'Baldwin', 'M');

INSERT INTO ACTOR VALUES(109, 'Jack', 'Nicholson', 'M');

INSERT INTO ACTOR VALUES(110, 'Mark', 'Wahlberg', 'M');

INSERT INTO ACTOR VALUES(111, 'Woody', 'Allen', 'M');

INSERT INTO ACTOR VALUES(112, 'Claire', 'Danes', 'F');

INSERT INTO ACTOR VALUES(113, 'Tim', 'Robbins', 'M');

INSERT INTO ACTOR VALUES(114, 'Kevin', 'Spacey', 'M');

INSERT INTO ACTOR VALUES(115, 'Kate', 'Winslet', 'F');

INSERT INTO ACTOR VALUES(116, 'Robin', 'Williams', 'M');

INSERT INTO ACTOR VALUES(117, 'Jon', 'Voight', 'M');

INSERT INTO ACTOR VALUES(118, 'Ewan', 'McGregor', 'M');

INSERT INTO ACTOR VALUES(119, 'Christian', 'Bale', 'M');

INSERT INTO ACTOR VALUES(120, 'Maggie', 'Gyllenhaal', 'F');

INSERT INTO ACTOR VALUES(121, 'Dev', 'Patel', 'M');

INSERT INTO ACTOR VALUES(122, 'Sigourney', 'Weaver', 'F');

INSERT INTO ACTOR VALUES(123, 'David', 'Aston', 'M');

INSERT INTO ACTOR VALUES(124, 'Ali', 'Astin', 'F');

SELECT * FROM ACTOR;

	ACT_ID	ACT_FNAME	ACT_LNAME	ACT_GENDER
1	101	James	Stewart	M
2	102	Deborah	Kerr	F
3	103	Peter	OToole	M
4	104	Robert	De Niro	M
5	105	F.Murray	Abraham	M
6	106	Harrison	Ford	M
7	107	Nicole	Kidman	F
8	108	Stephen	Baldwin	M
9	109	Jack	Nicholson	M
10	110	Mark	Wahlberg	M
11	111	Woody	Allen	M
12	112	Claire	Danes	F
13	113	Tim	Robbins	M
14	114	Kevin	Spacey	M
15	115	Kate	Winslet	F
16	116	Robin	Williams	M
17	117	Jon	Voight	M
18	118	Ewan	McGregor	M
19	119	Christian	Bale	M
20	120	Maggie	Gyllenhaal	F
21	121	Dev	Patel	M
22	122	Sigourney	Weaver	F
23	123	David	Aston	M
24	124	Ali	Astin	F

DIRECTOR-TABLE

CREATE TABLE DIRECTOR(DIR_ID NUMBER(4) NOT NULL PRIMARY KEY,

DIR_FNAME VARCHAR2(20) NOT NULL,

DIR_LNAME VARCHAR2(20) NOT NULL);

DESC DIRECTOR;

INSERT INTO DIRECTOR VALUES(201, 'Alfred', 'Hitchcock');

INSERT INTO DIRECTOR VALUES(202, 'Jack', 'Clayton');

INSERT INTO DIRECTOR VALUES(203, 'David', 'Lean');

INSERT INTO DIRECTOR VALUES(204, 'Michael', 'Cimino');

INSERT INTO DIRECTOR VALUES(205, 'Milos', 'Forman');

INSERT INTO DIRECTOR VALUES(206, 'Ridley', 'Scott');

INSERT INTO DIRECTOR VALUES(207, 'Stanley', 'Kubrick');

INSERT INTO DIRECTOR VALUES(208, 'Bryan', 'Singer');

INSERT INTO DIRECTOR VALUES(209, 'Roman', 'Polanski');

INSERT INTO DIRECTOR VALUES(210, 'Paul', 'Thomas Anderson');

INSERT INTO DIRECTOR VALUES(211, 'Woody', 'Allen');

INSERT INTO DIRECTOR VALUES(212, 'Hayao', 'Miyazaki');

INSERT INTO DIRECTOR VALUES(213, 'Frank', 'Darabont');

INSERT INTO DIRECTOR VALUES(214, 'Sam', 'Mendes');

INSERT INTO DIRECTOR VALUES(215, 'James', 'Cameron');

INSERT INTO DIRECTOR VALUES(216, 'Gus', 'Van Sant');

INSERT INTO DIRECTOR VALUES(217, 'John', 'Boorman');

INSERT INTO DIRECTOR VALUES(218, 'Danny', 'Boyle');

INSERT INTO DIRECTOR VALUES(219, 'Christopher', 'Nolan');

INSERT INTO DIRECTOR VALUES(220, 'Richard', 'Kelly');

INSERT INTO DIRECTOR VALUES(221, 'Kevin', 'Spacey');

INSERT INTO DIRECTOR VALUES(222, 'Andrei', 'Tarkovsky');

INSERT INTO DIRECTOR VALUES(223, 'Peter', 'Jackson');

SELECT * FROM DIRECTOR;

	DIR_ID	DIR_FNAME	DIR_LNAME
1	201	Alfred	Hitchcock
2	202	Jack	Clayton
3	203	David	Lean
4	204	Michael	Cimino
5	205	Milos	Forman
6	206	Ridley	Scott
7	207	Stanley	Kubrick
8	208	Bryan	Singer
9	209	Roman	Polanski
10	210	Paul	Thomas Anderson
11	211	Woody	Allen
12	212	Hayao	Miyazaki
13	213	Frank	Darabont
14	214	Sam	Mendes
15	215	James	Cameron
16	216	Gus	Van Sant
17	217	John	Boorman
18	218	Danny	Boyle

19	219	Christopher	Nolan
20	220	Richard	Kelly
21	221	Kevin	Spacey
22	222	Andrei	Tarkovsky
23	223	Peter	Jackson

GENRES-TABLE

CREATE TABLE GENRES(GEN_ID NUMBER PRIMARY KEY,

GEN_TITLE VARCHAR2(25) NOT NULL);

DESC GENRES;

INSERT INTO GENRES VALUES(1001,'Action');

INSERT INTO GENRES VALUES(1002,'Adventure');

INSERT INTO GENRES VALUES(1003,'Animation');

INSERT INTO GENRES VALUES(1004,'Biography');

INSERT INTO GENRES VALUES(1005,'Comedy');

INSERT INTO GENRES VALUES(1006,'Crime');

INSERT INTO GENRES VALUES(1007,'Drama');

INSERT INTO GENRES VALUES(1008,'Horror');

INSERT INTO GENRES VALUES(1009,'Music');

INSERT INTO GENRES VALUES(1010,'Mystery');

INSERT INTO GENRES VALUES(1011,'Romance');

INSERT INTO GENRES VALUES(1012,'Thriller');

INSERT INTO GENRES VALUES(1013,'War');

SELECT * FROM GENRES;

	GEN_ID	GEN_TITLE
1	1001	Action
2	1002	Adventure
3	1003	Animation
4	1004	Biography
5	1005	Comedy
6	1006	Crime
7	1007	Drama
8	1008	Horror
9	1009	Music
10	1010	Mystery
11	1011	Romance
12	1012	Thriller
13	1013	War

MOVIE_CAST-TABLE

CREATE TABLE MOVIE_CAST(ACT_ID NUMBER(4) NOT NULL REFERENCES ACTOR(ACT_ID),

MOV_ID NUMBER(4) NOT NULL REFERENCES MOVIE(MOV_ID),

ROLE VARCHAR2(30)

);

```sql
DESC MOVIE_CAST;


INSERT INTO MOVIE_CAST VALUES(101, 901,'John Scottie Ferguson');

INSERT INTO MOVIE_CAST VALUES(102, 902,'Miss Giddens');

INSERT INTO MOVIE_CAST VALUES(103, 903,'T.E. Lawrence');

INSERT INTO MOVIE_CAST VALUES(104, 904,'Michael');

INSERT INTO MOVIE_CAST VALUES(105, 905,'Antonio Salieri');

INSERT INTO MOVIE_CAST VALUES(106, 906,'Rick Deckard');

INSERT INTO MOVIE_CAST VALUES(107, 907,'Alice Harford');

INSERT INTO MOVIE_CAST VALUES(108, 908,'McManus');

INSERT INTO MOVIE_CAST VALUES(110, 910,'Eddie Adams');

INSERT INTO MOVIE_CAST VALUES(111, 911,'Alvy Singer');

INSERT INTO MOVIE_CAST VALUES(112, 912,'San');

INSERT INTO MOVIE_CAST VALUES(113, 913,'Andy Dufresne');

INSERT INTO MOVIE_CAST VALUES(114, 914,'Lester Burnham');

INSERT INTO MOVIE_CAST VALUES(115, 915,'Rose DeWitt Bukater');

INSERT INTO MOVIE_CAST VALUES(116, 916,'Sean Maguire');

INSERT INTO MOVIE_CAST VALUES(117, 917,'Ed');

INSERT INTO MOVIE_CAST VALUES(118, 918,'Renton');

INSERT INTO MOVIE_CAST VALUES(120, 920,'Elizabeth Darko');

INSERT INTO MOVIE_CAST VALUES(121, 921,'Older Jamal');

INSERT INTO MOVIE_CAST VALUES(122, 922,'Ripley');

INSERT INTO MOVIE_CAST VALUES(114, 923,'Bobby Darin');

INSERT INTO MOVIE_CAST VALUES(109, 909,'J.J.Gittes');

INSERT INTO MOVIE_CAST VALUES(119, 919,'Alfred Borden');


SELECT * FROM MOVIE_CAST;
```

	ACT_ID	MOV_ID	ROLE
1	101	901	John Scottie Ferguson
2	102	902	Miss Giddens
3	103	903	T.E. Lawrence
4	104	904	Michael
5	105	905	Antonio Salieri
6	106	906	Rick Deckard
7	107	907	Alice Harford
8	108	908	McManus
9	110	910	Eddie Adams
10	111	911	Alvy Singer
11	112	912	San
12	113	913	Andy Dufresne
13	114	914	Lester Burnham
14	115	915	Rose DeWitt Bukater
15	116	916	Sean Maguire
16	117	917	Ed
17	118	918	Renton
18	120	920	Elizabeth Darko

19	121	921	Older Jamal
20	122	922	Ripley
21	114	923	Bobby Darin
22	109	909	J.J.Gittes
23	119	919	Alfred Borden

MOVIE-TABLE

CREATE TABLE MOVIE (

   MOV_ID NUMBER NOT NULL CONSTRAINT MOVIE_PK PRIMARY KEY,

   MOV_TITLE VARCHAR2(50) NOT NULL,

   MOV_YEAR NUMBER NOT NULL,

   MOV_TIME NUMBER NOT NULL,

   MOV_LANG VARCHAR2(20) NOT NULL,

   MOV_DT_REL DATE,

   MOV_REL_COUNTRY VARCHAR2(20) NOT NULL

);

DESC MOVIE;

INSERT INTO MOVIE VALUES(901,'Vertigo',1958,128,'English',TO_DATE('1958-08-24','YYYY-MM-DD'),'UK');

INSERT INTO MOVIE VALUES(902,'The Innocents',1961,100,'English',TO_DATE('1962-02-19','YYYY-MM-DD'),'SW');

INSERT INTO MOVIE VALUES(903,'Lawrence of Arabia',1962,216,'English',TO_DATE('1962-12-11','YYYY-MM-DD'),'UK');

INSERT INTO MOVIE VALUES(904,'The Deer Hunter',1978,183,'English',TO_DATE('1979-03-08','YYYY-MM-DD'),'UK');

INSERT INTO MOVIE VALUES(905,'Amadeus',1984,160,'English',TO_DATE('1985-01-07','YYYY-MM-DD'),'UK');

INSERT INTO MOVIE VALUES(906,'Blade Runner',1982,117,'English',TO_DATE('1982-09-09','YYYY-MM-DD'),'UK');

INSERT INTO MOVIE VALUES(907,'Eyes Wide Shut',1999,159,'English',NULL,'UK');

INSERT INTO MOVIE VALUES(908,'The Usual Suspects',1995,106,'English',TO_DATE('1995-08-25','YYYY-MM-DD'),'UK');

INSERT INTO MOVIE VALUES(909,'Chinatown',1974,130,'English',TO_DATE('1974-08-09','YYYY-MM-DD'),'UK');

INSERT INTO MOVIE VALUES(910,'The Boogie Nights',1997,155,'English',TO_DATE('1998-02-16','YYYY-MM-DD'),'UK');

INSERT INTO MOVIE VALUES(911,'Annie Hall',1977,93,'English',TO_DATE('1977-04-20','YYYY-MM-DD'),'USA');

INSERT INTO MOVIE VALUES(912,'Princess Mononoke',1997,134,'Japanese',TO_DATE('2001-10-19','YYYY-MM-DD'),'UK');

INSERT INTO MOVIE VALUES(913,'The Shawshank Redemption',1994,142,'English',TO_DATE('1995-02-17','YYYY-MM-DD'),'UK');

INSERT INTO MOVIE VALUES(914,'American Beauty',1999,122,'English',NULL,'UK');

INSERT INTO MOVIE VALUES(915,'Titanic',1997,194,'English',TO_DATE('1998-01-23','YYYY-MM-DD'),'UK');

INSERT INTO MOVIE VALUES(916,'Good Will Hunting',1997,126,'English',TO_DATE('1998-06-03','YYYY-MM-DD'),'UK');

INSERT INTO MOVIE VALUES(917,'Deliverance',1972,109,'English',TO_DATE('1982-10-05','YYYY-MM-DD'),'UK');

INSERT INTO MOVIE VALUES(918,'Trainspotting',1996,94,'English',TO_DATE('1996-02-23','YYYY-MM-DD'),'UK');

INSERT INTO MOVIE VALUES(919,'The Prestige',2006,130,'English',TO_DATE('2006-11-10','YYYY-MM-DD'),'UK');

INSERT INTO MOVIE VALUES(920,'Donnie Darko',2001,113,'English',NULL,'UK');

INSERT INTO MOVIE VALUES(921,'Slumdog Millionaire',2008,120,'English',TO_DATE('2009-01-09','YYYY-MM-DD'),'UK');

INSERT INTO MOVIE VALUES(922,'Aliens',1986,137,'English',TO_DATE('1986-08-29','YYYY-MM-DD'),'UK');

INSERT INTO MOVIE VALUES(923,'Beyond the Sea',2004,118,'English',TO_DATE('2004-11-26','YYYY-MM-DD'),'UK');

INSERT INTO MOVIE VALUES(924,'Avatar',2009,162,'English',TO_DATE('2009-12-17','YYYY-MM-DD'),'UK');

INSERT INTO MOVIE VALUES(925,'Braveheart',1995,178,'English',TO_DATE('1995-09-08','YYYY-MM-DD'),'UK');

INSERT INTO MOVIE VALUES(926,'Seven Samurai',1954,207,'Japanese',TO_DATE('1954-04-26','YYYY-MM-DD'),'JP');

INSERT INTO MOVIE VALUES(927,'Spirited Away',2001,125,'Japanese',TO_DATE('2003-09-12','YYYY-MM-DD'),'UK');

INSERT INTO MOVIE VALUES(928,'Back to the Future',1985,116,'English',TO_DATE('1985-12-04','YYYY-MM-DD'),'UK');

SELECT * FROM MOVIE;

	MOV_ID	MOV_TITLE	MOV_YEAR	MOV_TIME	MOV_LANG	MOV_DT_REL	MOV_REL_COUNTRY
1	901	Vertigo	1958	128	English	24-08-58	UK
2	902	The Innocents	1961	100	English	19-02-62	SW
3	903	Lawrence of Arabia	1962	216	English	11-12-62	UK
4	904	The Deer Hunter	1978	183	English	08-03-79	UK
5	905	Amadeus	1984	160	English	07-01-85	UK
6	906	Blade Runner	1982	117	English	09-09-82	UK
7	907	Eyes Wide Shut	1999	159	English	(null)	UK
8	908	The Usual Suspects	1995	106	English	25-08-95	UK
9	909	Chinatown	1974	130	English	09-08-74	UK
10	910	The Boogie Nights	1997	155	English	16-02-98	UK
11	911	Annie Hall	1977	93	English	20-04-77	USA
12	912	Princess Mononoke	1997	134	Japanese	19-10-01	UK
13	913	The Shawshank Redemption	1994	142	English	17-02-95	UK
14	914	American Beauty	1999	122	English	(null)	UK
15	915	Titanic	1997	194	English	23-01-98	UK
16	916	Good Will Hunting	1997	126	English	03-06-98	UK
17	917	Deliverance	1972	109	English	05-10-82	UK
18	918	Trainspotting	1996	94	English	23-02-96	UK

19	919 The Prestige	2006	130 English	10-11-06	UK
20	920 Donnie Darko	2001	113 English	(null)	UK
21	921 Slumdog Millionaire	2008	120 English	09-01-09	UK
22	922 Aliens	1986	137 English	29-08-86	UK
23	923 Beyond the Sea	2004	118 English	26-11-04	UK
24	924 Avatar	2009	162 English	17-12-09	UK
25	925 Braveheart	1995	178 English	08-09-95	UK
26	926 Seven Samurai	1954	207 Japanese	26-04-54	JP
27	927 Spirited Away	2001	125 Japanese	12-09-03	UK
28	928 Back to the Future	1985	116 English	04-12-85	UK

<div align="center" style="color:red"> MOVIE_DIRECTION-TABLE</div>

CREATE TABLE MOVIE_DIRECTION(DIR_ID NUMBER(4)

NOT NULL REFERENCES DIRECTOR(DIR_ID),

MOV_ID NUMBER(4) NOT NULL REFERENCES MOVIE(MOV_ID));

DESC MOVIE_DIRECTION;

INSERT INTO MOVIE_DIRECTION VALUES(201,901);

INSERT INTO MOVIE_DIRECTION VALUES(202,902);

INSERT INTO MOVIE_DIRECTION VALUES(203,903);

INSERT INTO MOVIE_DIRECTION VALUES(204,904);

INSERT INTO MOVIE_DIRECTION VALUES(205,905);

INSERT INTO MOVIE_DIRECTION VALUES(206,906);

INSERT INTO MOVIE_DIRECTION VALUES(207,907);

INSERT INTO MOVIE_DIRECTION VALUES(208,908);

INSERT INTO MOVIE_DIRECTION VALUES(209,909);

INSERT INTO MOVIE_DIRECTION VALUES(210,910);

INSERT INTO MOVIE_DIRECTION VALUES(211,911);

INSERT INTO MOVIE_DIRECTION VALUES(212,912);

INSERT INTO MOVIE_DIRECTION VALUES(213,913);

INSERT INTO MOVIE_DIRECTION VALUES(214,914);

INSERT INTO MOVIE_DIRECTION VALUES(215,915);

INSERT INTO MOVIE_DIRECTION VALUES(216,916);

INSERT INTO MOVIE_DIRECTION VALUES(217,917);

INSERT INTO MOVIE_DIRECTION VALUES(218,918);

INSERT INTO MOVIE_DIRECTION VALUES(219,919);

INSERT INTO MOVIE_DIRECTION VALUES(220,920);

INSERT INTO MOVIE_DIRECTION VALUES(218,921);

INSERT INTO MOVIE_DIRECTION VALUES(215,922);

INSERT INTO MOVIE_DIRECTION VALUES(221,923);

SELECT * FROM MOVIE_DIRECTION;

	DIR_ID	MOV_ID
1	201	901
2	202	902
3	203	903
4	204	904
5	205	905
6	206	906
7	207	907
8	208	908
9	209	909
10	210	910
11	211	911
12	212	912
13	213	913
14	214	914
15	215	915
16	216	916
17	217	917
18	218	918
19	219	919
20	220	920
21	218	921
22	215	922
23	221	923

MOVIE_GENRES-TABLE

CREATE TABLE MOVIE_GENRES (MOV_ID NUMBER(5, 0) NOT NULL REFERENCES MOVIE(MOV_ID),

GEN_ID NUMBER(6, 0) NOT NULL REFERENCES GENRES(GEN_ID));

DESC MOVIE_GENRES;

INSERT INTO MOVIE_GENRES VALUES(922,1001);

INSERT INTO MOVIE_GENRES VALUES(917,1002);

INSERT INTO MOVIE_GENRES VALUES(903,1002);

INSERT INTO MOVIE_GENRES VALUES(912,1003);

INSERT INTO MOVIE_GENRES VALUES(911,1005);

INSERT INTO MOVIE_GENRES VALUES(908,1006);

INSERT INTO MOVIE_GENRES VALUES(913,1006);

INSERT INTO MOVIE_GENRES VALUES(926,1007);

INSERT INTO MOVIE_GENRES VALUES(928,1007);

INSERT INTO MOVIE_GENRES VALUES(918,1007);

INSERT INTO MOVIE_GENRES VALUES(921,1007);

INSERT INTO MOVIE_GENRES VALUES(902,1008);

INSERT INTO MOVIE_GENRES VALUES(923,1009);

INSERT INTO MOVIE_GENRES VALUES(907,1010);

INSERT INTO MOVIE_GENRES VALUES(927,1010);

INSERT INTO MOVIE_GENRES VALUES(901,1010);

INSERT INTO MOVIE_GENRES VALUES(914,1011);

INSERT INTO MOVIE_GENRES VALUES(906,1012);

INSERT INTO MOVIE_GENRES VALUES(904,1013);

SELECT* FROM MOVIE_GENRES;

	MOV_ID	GEN_ID
1	922	1001
2	917	1002
3	903	1002
4	912	1003
5	911	1005
6	908	1006
7	913	1006
8	926	1007
9	928	1007
10	918	1007
11	921	1007
12	902	1008
13	923	1009
14	907	1010
15	927	1010
16	901	1010
17	914	1011
18	906	1012
19	904	1013

RATING-TABLE

CREATE TABLE RATING(MOV_ID NUMBER(5, 0) NOT NULL REFERENCES MOVIE(MOV_ID),

REV_ID NUMBER(5, 0) NOT NULL REFERENCES REVIEWER(REV_ID),

REV_STARS NUMBER(4, 2),

NUM_O_RATINGS NUMBER(10, 0));

DESC RATING;

INSERT INTO RATING VALUES(901,9001,8.4,263575);

INSERT INTO RATING VALUES(902,9002,7.9,20207);

INSERT INTO RATING VALUES(903,9003,8.3,202778);

INSERT INTO RATING VALUES(906,9005,8.2,484746);

INSERT INTO RATING VALUES(924,9006,7.3,NULL);

INSERT INTO RATING VALUES(908,9007,8.6,779489);

INSERT INTO RATING VALUES(909,9008,NULL,227235);

INSERT INTO RATING VALUES(910,9009,3,195961);

INSERT INTO RATING VALUES(911,9010,8.1,203875);

INSERT INTO RATING VALUES(912,9011,8.4,NULL);

INSERT INTO RATING VALUES(914,9013,7,862618);

INSERT INTO RATING VALUES(915,9001,7.7,830095);

INSERT INTO RATING VALUES(916,9014,4,642132);

INSERT INTO RATING VALUES(925,9015,7.7,81328);

INSERT INTO RATING VALUES(918,9016,NULL,580301);

INSERT INTO RATING VALUES(920,9017,8.1,609451);

INSERT INTO RATING VALUES(921,9018,8.0,667758);

INSERT INTO RATING VALUES(922,9019,8.4,511613);

INSERT INTO RATING VALUES(923,9020,6.7,13091);

SELECT * FROM RATING;

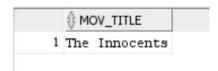|	MOV_ID	REV_ID	REV_STARS	NUM_O_RATINGS
1	901	9001	8.4	263575
2	902	9002	7.9	20207
3	903	9003	8.3	202778
4	906	9005	8.2	484746
5	924	9006	7.3	(null)
6	908	9007	8.6	779489
7	909	9008	(null)	227235
8	910	9009	3	195961
9	911	9010	8.1	203875
10	912	9011	8.4	(null)
11	914	9013	7	862618
12	915	9001	7.7	830095
13	916	9014	4	642132
14	925	9015	7.7	81328
15	918	9016	(null)	580301
16	920	9017	8.1	609451
17	921	9018	8	667758
18	922	9019	8.4	511613
19	923	9020	6.7	13091

REVIEWER-TABLE

CREATE TABLE REVIEWER(

```
REV_ID NUMBER(5, 0) NOT NULL PRIMARY KEY,

REV_NAME VARCHAR2(30));


DESC REVIEWER;


INSERT INTO REVIEWER VALUES(9001,'Righty Sock');

INSERT INTO REVIEWER VALUES(9002,'Jack Malvern');

INSERT INTO REVIEWER VALUES(9003,'Flagrant Baronessa');

INSERT INTO REVIEWER VALUES(9004,'Alec Shaw');

INSERT INTO REVIEWER VALUES(9005,NULL);

INSERT INTO REVIEWER VALUES(9006,'Victor Woeltjen');

INSERT INTO REVIEWER VALUES(9007,'Simon Wright');

INSERT INTO REVIEWER VALUES(9008,'Neal Wruck');

INSERT INTO REVIEWER VALUES(9009,'Paul Monks');

INSERT INTO REVIEWER VALUES(9010,'Mike Salvati');

INSERT INTO REVIEWER VALUES(9011,NULL);

INSERT INTO REVIEWER VALUES(9012,'Wesley S.Walker');

INSERT INTO REVIEWER VALUES(9013,'Sasha Goldshtein');

INSERT INTO REVIEWER VALUES(9014,'Josh Cates');

INSERT INTO REVIEWER VALUES(9015,'Krug Stillo');

INSERT INTO REVIEWER VALUES(9016,'Scott LeBrun');

INSERT INTO REVIEWER VALUES(9017,'Hannah Steele');

INSERT INTO REVIEWER VALUES(9018,'Vincent Cadena');

INSERT INTO REVIEWER VALUES(9019,'Brandt Sponseller');

INSERT INTO REVIEWER VALUES(9020,'Richard Adams');


SELECT * FROM REVIEWER;
```

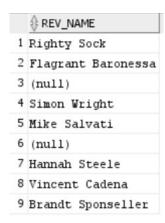|	REV_ID	REV_NAME
1	9001	Righty Sock
2	9002	Jack Malvern
3	9003	Flagrant Baronessa
4	9004	Alec Shaw
5	9005	(null)
6	9006	Victor Woeltjen
7	9007	Simon Wright
8	9008	Neal Wruck
9	9009	Paul Monks
10	9010	Mike Salvati
11	9011	(null)
12	9012	Wesley S.Walker
13	9013	Sasha Goldshtein
14	9014	Josh Cates
15	9015	Krug Stillo
16	9016	Scott LeBrun
17	9017	Hannah Steele
18	9018	Vincent Cadena
19	9019	Brandt Sponseller
20	9020	Richard Adams

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
1	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
1	Righty Sock
2	Flagrant Baronessa
3	(null)
4	Simon Wright
5	Mike Salvati
6	(null)
7	Hannah Steele
8	Vincent Cadena
9	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 IN (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
1	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
1	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 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
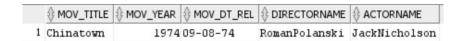
WHERE A.MOV_ID=B.MOV_ID

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
1	Chinatown	1974	09-08-74	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
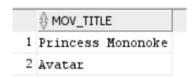
WHERE MOV_ID IN (SELECT MOV_ID FROM RATING

WHERE REV_STARS>4);

	MOV_YEAR
1	1997
2	1986
3	2009
4	1982
5	1999
6	2001
7	1962
8	1977
9	1958
10	1995
11	2004
12	1961
13	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);

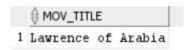|	MOV_TITLE
1	Princess Mononoke
2	Avatar

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
1	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
1	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
1 KevinSpacey