#### SBA-3 HELANI PAUL 210914

- 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.

# **Creating Databases and Tables**

- create database project\_movie\_data;
- use project\_movie\_data;
- create table actor (act\_id int not null, act\_fname char(20), act\_lname char(20), act\_gender char(1), primary key (act\_id));
- create table director ( dir\_id int not null, dir\_fname char(20), dir\_lname char(20), primary key (dir\_id));
- reate table genres ( gen id int not null, gen title char(20), primary key(gen id));
- create table reviewer ( rev\_id int not null, rev\_name char(30), primary key(rev\_id));
- create table movie ( mov\_id int not null, mov\_title char(50), mov\_year int, mov\_time integer, mov\_lang char(50), mov\_dt\_rel date, mov\_rel\_country char(5),primary key(mov\_id));
- create table movie\_cast ( act\_id int not null, mov\_id int not null, role char(30), foreign key(act id) references actor(act id), foreign key(mov id) references movie(mov id));
- create table movie\_direction (dir\_id int not null, mov\_id int not null, foreign key(dir\_id) references director(dir\_id), foreign key(mov\_id) references movie(mov\_id));
- create table rating (mov\_id int not null, rev\_id int not null, rev\_stars decimal(8,2), num\_o\_ratings int, foreign key(mov\_id) references movie(mov\_id), foreign key(rev\_id) references reviewer(rev\_id));
- create table movie\_genres ( mov\_id int not null, gen\_id int not null, foreign key(mov\_id) references movie(mov\_id), foreign key(gen\_id) references genres(gen\_id));

#### Query for inserting on table actor:

insert into actor (act\_id, act\_fname, act\_lname, act\_gender) values (101, 'James', 'Stewart', 'M'),(102, 'Deborah', 'Kerr', 'F'),(103, 'Peter', 'OToole', 'M'),(104, 'Robert', 'De Niro', 'M'), (105, 'F. Murray', 'Abraham', 'M'),(106, 'Harrison', 'Ford', 'M'),(107, 'Nicole', 'Kidman', 'F'), (108, 'Stephen', 'Baldwin', 'M'),(109, 'Jack', 'Nicholson', 'M'),(110, 'Mark', 'Wahlberg', 'M'), (111, 'Woody', 'Allen', 'M'),(112, 'Claire', 'Danes', 'F'),(113, 'Tim', 'Robbins', 'M'),(114, 'Kevin', 'Spacey', 'M'),(115, 'Kate', 'Winslet', 'F'),(116, 'Robin', 'Williams', 'M'),(117, 'Jon', 'Voight', 'M'), (118, 'Ewan', 'McGregor', 'M'),(119, 'Christian', 'Bale', 'M'),(120, 'Maggie', 'Gyllenhaa', 'F'),(121, 'Dev', 'Patel', 'M'),(122, 'Sigourney', 'Weaver', 'F'),(123, 'David', 'Aston', 'M'),(124, 'Ali', 'Astin', 'F');

act_id	act_fname	act_Iname	act_gender
101	James	Stewart	M
102	Deborah	Kerr	F
103	Peter	OToole	M
104	Robert	De Niro	M
105	F. Murray	Abraham	M
106	Harrison	Ford	M
107	Nicole	Kidman	F
108	Stephen	Baldwin	M
109	Jack	Nicholson	M
110	Mark	Wahlberg	M
111	Woody	Allen	M
112	Claire	Danes	F
113	Tim	Robbins	M
114	Kevin	Spacey	M
115	Kate	Winslet	F
116	Robin	Williams	M
117	Jon	Voight	M
118	Ewan	McGregor	M
119	Christian	Bale	M
120	Maggie	Gyllenhaal	F
121	Dev	Patel	M
122	Sigourney	Weaver	F
123	David	Aston	M
124	Ali	Astin	F

## Query for inserting on table director:

insert into director (dir\_id, dir\_fname, dir\_lname) values (201, 'Alfred', 'Hitchcock'),(202, 'Jack', 'Clayton'),(203, 'David', 'Lean'),(204, 'Michael', 'Cimino'),(205, 'Milos', 'Forman'),(206, 'Ridley', 'Scott'),(207, 'Stanley', 'Kubrick'),(208, 'Bryan', 'Singer'),(209, 'Roman', 'Polanski'),(210, 'Paul', 'Thomas Anderson'),(211, 'Woody', 'Allen'),(212, 'Hayao', 'Miyazaki'),(213, 'Frank', 'Darabont'), (214, 'Sam', 'Mendes'),(215, 'James', 'Cameron'),(216, 'Gus', 'Van Sant'),(217, 'John', 'Boorman'), (218, 'Danny', 'Boyle'),(219, 'Christopher', 'Nolan'),(220, 'Richard', 'Kelly'),(221, 'Kevin', 'Spacey'), (222, 'Andrei', 'Tarkovsky'),(223, 'Peter', 'Jackson');

dir_id	dir_fname	dir_Iname		
201	Alfred	Hitchcock		
202	Jack	Clayton		
203	David	Lean		
204	Michael	Cimino		
205	Milos	Forman		
206	Ridley	Scott		
207	Stanley	Kubrick		
208	Bryan	Singer		
209	Roman	Polanski		
210	Paul	Thomas Anderson		
211	Woody	Allen		
212	Hayao	Miyazaki		
213	Frank	Darabont		
214	Sam	Mendes		
215	James	Cameron		
216	Gus	Van Sant		
217	John	Boorman		
218	Danny	Boyle		
219	Christopher	Nolan		
220	Richard	Kelly		
221	Kevin	Spacey		
222	Andrei	Tarkovsky		
223	Peter	Jackson		

### Query for inserting on table genres:

insert into genres (gen\_id, gen\_title) values (1001, 'Action'),(1002, 'Adventure'), (1003, 'Animation'),(1004, 'Biography'),(1005, 'Comedy'),(1006, 'Crime'),(1007, 'Drama'), (1008, 'Horror'),(1009, 'Music'),(1010, 'Mystery'),(1011, 'Romance'),(1012, 'Thriller'),(1013, 'War');

gen_id	gen_title
1001	Action
1002	Adventure
1003	Animation
1004	Biography
1005	Comedy
1006	Crime
1007	Drama
1008	Horror
1009	Music
1010	Mystery
1011	Romance
1012	Thriller
1013	War

### Query for inserting on table movie:

insert into movie (mov\_id, mov\_title, mov\_year, mov\_time, mov\_lang, mov\_dt\_rel, mov rel country) values (901, 'Vertigo', 1958, 128, 'English', '1958-08-24', 'UK'), (902, 'The Innocents', 1961, 100, 'English', '1962-02-19', 'SW'), (903, 'Lawrence of Arabia', 1962, 216, 'English', '1962-12-11', 'UK'),(904, 'The Deer Hunter', 1978, 183, 'English', '1979-03-08', 'UK'), (905, 'Amadeus', 1984, 160, 'English', '1985-01-07', 'UK'),(906, 'Blade Runner', 1982, 117, 'English', '1982-09-09', 'UK'),(907, 'Eyes Wide Shut', 1999, 159, 'English', null, 'UK'), (908, 'The Usual Suspects', 1995, 106, 'English', '1995-08-25', 'UK'), (909, 'Chinatown', 1974, 130, 'English', '1974-08-09', 'UK'),(910, 'Boogie Nights', 1997, 155, 'English', '1998-02-16', 'UK'), (911, 'Annie Hall', 1977, 93, 'English', '1977-04-20', 'USA'), (912, 'Princess Mononoke', 1997, 134, 'Japanese', '2001-10-19', 'UK'),(913, 'The Shawshank Redemption', 1994, 142, 'English', '1995-02-17', 'UK'),(914, 'American Beauty', 1999, 122, 'English', null, 'UK'),(915, 'Titanic', 1997, 194, 'English', '1998-01-23', 'UK'),(916, 'Good Will Hunting', 1997, 126, 'English', '1998-06-03', 'UK'), (917, 'Deliverance', 1972, 109, 'English', '1982-10-05', 'UK'), (918, 'Trainspotting', 1996, 94, 'English', '1996-02-23', 'UK'),(919, 'The Prestige', 2006, 130, 'English', '2006-11-10', 'UK'), (920, 'Donnie Darko', 2001, 113, 'English', null, 'UK'), (921, 'Slumdog Millionaire', 2008, 120, 'English', '2009-01-09', 'UK'),(922, 'Aliens', 1986, 137, 'English', '1986-08-29', 'UK'),(923, 'Beyond the Sea', 2004, 118, 'English', '2004-11-26', 'UK'),(924, 'Avatar', 2009, 162, 'English', '2009-12-17', 'UK'),(926, 'Seven Samurai', 1954, 207, 'Japanese', '1954-04-26', 'JP'), (927, 'Spirited Away', 2001, 125, 'Japanese', '2003-09-12', 'UK'), (928, 'Back to the Future', 1985, 116, 'English', '1985-12-04', 'UK'), (925, 'Braveheart', 1995, 178, 'English', '1995-09-08', 'UK');

mov_id	mov_title	mov_year	mov_time	mov_lang	mov_dt_rel	mov_rel_country
901	Vertigo	1958	128	English	1958-08-24	UK
902	The Innocents	1961	100	English	1962-02-19	SW
903	Lawrence of Arabia	1962	216	English	1962-12-11	UK
904	The Deer Hunter	1978	183	English	1979-03-08	UK
905	Amadeus	1984	160	English	1985-01-07	UK
906	Blade Runner	1982	117	English	1982-09-09	UK
907	Eyes Wide Shut	1999	159	English	NULL	UK
908	The Usual Suspects	1995	106	English	1995-08-25	UK
909	Chinatown	1974	130	English	1974-08-09	UK
910	Boogie Nights	1997	155	English	1998-02-16	UK
911	Annie Hall	1977	93	English	1977-04-20	USA
912	Princess Mononoke	1997	134	Japanese	2001-10-19	UK
913	The Shawshank R	1994	142	English	1995-02-17	UK
914	American Beauty	1999	122	English	NULL	UK
915	Titanic	1997	194	English	1998-01-23	UK
916	Good Will Hunting	1997	126	English	1998-06-03	UK
917	Deliverance	1972	109	English	1982-10-05	UK
918	Trainspotting	1996	94	English	1996-02-23	UK
919	The Prestige	2006	130	English	2006-11-10	UK
920	Donnie Darko	2001	113	English	NULL	UK
921	Slumdog Millionaire	2008	120	English	2009-01-09	UK
922	Aliens	1986	137	English	1986-08-29	UK
923	Beyond the Sea	2004	118	English	2004-11-26	UK
924	Avatar	2009	162	English	2009-12-17	UK
925	Braveheart	1995	178	English	1995-09-08	UK
926	Seven Samurai	1954	207	Japanese	1954-04-26	JP
927	Spirited Away	2001	125	Japanese	2003-09-12	UK
928	Back to the Future	1985	116	English	1985-12-04	UK

## Query for inserting on table movie\_cast:

INSERT INTO movie\_cast (act\_id, mov\_id, role) VALUES (101, 901, 'John Scottie Ferguson'), (102, 902, 'Miss Giddens'), (103, 903, 'T.E. Lawrence'), (104, 904, 'Michael'), (105, 905, 'Antonio Salieri'), (106, 906, 'Rick Deckard'), (107, 907, 'Alice Harford'), (108, 908, 'McManus'), (110, 910, 'Eddie Adams'), (111, 911, 'Alvy Singer'), (112, 912, 'San'), (113, 913, 'Andy Dufresne'), (114, 914, 'Lester Burnham'), (115, 915, 'Rose DeWitt Bukater'), (116, 916, 'Sean Maguire'), (117, 917, 'Ed'), (118, 918, 'Renton'), (120, 920, 'Elizabeth Darko'), (121, 921, 'Older Jamal'), (122, 922, 'Ripley'), (114, 923, 'Bobby Darin'), (109, 909, 'J.J. Gittes'), (119, 919, 'Alfred Borden');

act_id	mov_id	role	
101	901	John Scottie Ferguson	
102	902	Miss Giddens	
103	903	T.E. Lawrence	
104	904	Michael	
105	905	Antonio Salieri	
106	906	Rick Deckard	
107	907	Alice Harford	
108	908	McManus	
110	910	Eddie Adams	
111	911	Alvy Singer	
112	912	San	
113	913	Andy Dufresne	
114	914	Lester Burnham	
115	915	Rose DeWitt Bukater	
116	916	Sean Maguire	
117	917	Ed	
118	918	Renton	
120	920	Elizabeth Darko	
121	921	Older Jamal	
122	922	Ripley	
114	923	Bobby Darin	
109	909	J.J. Gittes	
119	919	Alfred Borden	

## Query for inserting on table movie\_direction:

INSERT INTO movie\_direction (dir\_id, mov\_id) VALUES (201, 901),(202, 902),(203, 903), (204, 904),(205, 905),(206, 906),(207, 907),(208, 908),(209, 909),(210, 910),(211, 911), (212, 912),(213, 913),(214, 914),(215, 915),(216, 916),(217, 917),(218, 918),(219, 919),(220, 920), (218, 921),(215, 922),(221, 923);

dir_id	mov_id
201	901
202	902
203	903
204	904
205	905
206	906
207	907
208	908
209	909
210	910
211	911
212	912
213	913
214	914
215	915
216	916
217	917
218	918
219	919
220	920
218	921
215	922
221	923

## Query for inserting on table movie\_genres:

INSERT INTO movie\_genres (mov\_id, gen\_id) VALUES (922, 1001),(917, 1002),(903, 1002), (912, 1003),(911, 1005),(908, 1006),(913, 1006),(926, 1007),(928, 1007),(918, 1007), (921, 1007),(902, 1008),(923, 1009),(907, 1010),(927, 1010),(901, 1010),(914, 1010), (906, 1012),(904, 1013);

gen_id
1001
1002
1002
1003
1005
1006
1006
1007
1007
1007
1007
1008
1009
1010
1010
1010
1010
1012
1013

### Query for inserting on table reviewer:

insert into reviewer (rev\_id, rev\_name) values (9001, 'Righty Sock'),(9002, 'Jack Malvern'), (9003, 'Flagrant Baronessa'),(9004, 'Alec Shaw'),(9005,null),(9006, 'Victor Woeltjen'),(9007, 'Simon Wright'),(9008, 'Neal Wruck'),(9009, 'Paul Monks'),(9010, 'Mike Salvati'),(9011,null), (9012, 'Wesley S. Walker'),(9013, 'Sasha Goldshtein'),(9014, 'Josh Cates'),(9015, 'Krug Stillo'), (9016, 'Scott LeBrun'),(9017, 'Hannah Steele'),(9018, 'Vincent Cadena'), (9019, 'Brandt Sponseller'),(9020, 'Richard Adams');

rev_id	rev_name
9001	Righty Sock
9002	Jack Malvern
9003	Flagrant Baronessa
9004	Alec Shaw
9005	NULL
9006	Victor Woeltjen
9007	Simon Wright
9008	Neal Wruck
9009	Paul Monks
9010	Mike Salvati
9011	NULL
9012	Wesley S. Walker
9013	Sasha Goldshtein
9014	Josh Cates
9015	Krug Stillo
9016	Scott LeBrun
9017	Hannah Steele
9018	Vincent Cadena
9019	Brandt Sponseller
9020	Richard Adams

### Query for inserting on table rating:

INSERT INTO rating (mov\_id, rev\_id, rev\_stars, num\_o\_ratings) VALUES (901, 9001, 8.4, 263575),(902, 9002, 7.9, 20207),

(903, 9003, 8.3, 202778),(906, 9005, 8.2, 484746),(924, 9006, 7.3, null),(908, 9007, 8.6, 779489),(909, 9008, null, 227235),

(910, 9009, 3, 195961),(911, 9010, 8.1, 203875),(912, 9011, 8.4, null),(914, 9013, 7, 862618),(915, 9001, 7.7, 830095),

(916, 9014, 4, 642132),(925, 9015, 7.7, 81328),(918, 9016, null, 580301),(920, 9017, 8.1, 609451),(921, 9018, 8, 667758),

(922, 9019, 8.4, 511613), (923, 9020, 6.7, 13091);

mov_id	rev_id	rev_stars	num_o_ratings
901	9001	8.40	263575
902	9002	7.90	20207
903	9003	8.30	202778
906	9005	8.20	484746
924	9006	7.30	NULL
908	9007	8.60	779489
909	9008	NULL	227235
910	9009	3.00	195961
911	9010	8.10	203875
912	9011	8.40	NULL
914	9013	7.00	862618
915	9001	7.70	830095
916	9014	4.00	642132
925	9015	7.70	81328
918	9016	NULL	580301
920	9017	8.10	609451
921	9018	8.00	667758
922	9019	8.40	511613
923	9020	6.70	13091

## 3. Write a query in SQL to list the Horror movies?

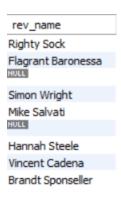
## SELECT mov\_title

FROM movie WHERE mov\_id=(SELECT mov\_id FROM movie\_genres WHERE gen\_id in (SELECT gen\_id FROM genres WHERE gen\_title='Horror'));

	mov_title
•	The Innocents

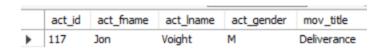
4. Write a query in SQL to find the name of all reviewers who have rated 8 or more stars?

select rev\_name from reviewer rv INNER JOIN rating rt on rv.rev\_id = rt.rev\_id where rt.rev\_stars >= 8.00;



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

select a.act\_id,a.act\_fname,a.act\_lname,a.act\_gender,m.mov\_title from actor a INNER JOIN movie\_cast mc on a.act\_id = mc.act\_id INNER JOIN movie m on m.mov\_id = mc.mov\_id where m.mov\_title = 'Deliverance';



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 in ( select dir\_id from movie\_direction where mov\_id in
(select mov\_id from movie m where mov\_title = 'Eyes Wide Shut'));



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, dir\_fname, dir\_lname, act\_fname, act\_lname
from movie m, director d, actor a, movie\_direction md, rating rt, reviewer rv,
movie\_cast mc
where md.dir\_id = d.dir\_id
and mc.act\_id = a.act\_id
and m.mov\_id = md.mov\_id
and m.mov\_id = rt.mov\_id
and rt.rev\_id = rv.rev\_id
and rv.rev\_name = 'Neal Wruck';

