

1. Create Database project_movie_data and deploy table data according to ER diagram.

```
create database project_movie_data;

use project_movie_data;

create table actor(act_id int primary key, act_fname char(20), act_lname char(20),
act_gender char(1));

create table director(dir_id int primary key, dir_fname char(20), dir_lname char(20));

create table movie(mov_id int primary key, mov_title char(50), mov_year int,
mov_time int, mov_lang char(50), mov_dt_rel date, mov_rel_country char(5));

create table reviewer(rev_id primary key, rev_name char(30));

create table genres(gen_id primary key, gen_title char(20));

create table movie_cast(act_id int, mov_id int, role char(20), foreign key act_id
references actor(act_id), foreign key(mov_id) references movie(mov_id));

create table movie_direction(dir_id int, mov_id int, foreign key(dir_id) reference
director(dir_id), foreign key(mov_id) reference movie(mov_id));

create table movie_genres(mov_id int, gen_id int, foreign key(mov_id) references
movie(mov_id), foreign key(gen_id) references genres(gen_id));

create table rating(mov_id int, rev_id int, rev_stars double, num_o_rating int,
foreign key(mov_id) references movie(mov_id), foreign key(rev_id) references
reviewer(rev_id));
```

2. Create 9 tables which are presented in ER model and load the data with foreign key and primary key values.

```
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', 'Baldwi', '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');

insert into director(dir_id, dir_fname, dir_lname)values(201, 'Alfred', 'Hitchcock'),(202, 'Jack', 'Clayton'),(203, 'David', 'Lean'),(204, 'Micheal', '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');

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');

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, 'Elizbeth Darko'),(121, 921, 'Older Jamal'),(122, 922, 'Ripley'),(114, 923, 'Bobby Darin'),(109, 909, 'J.J.Gittes'),(119, 919, 'Alfred Borden);

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'),(903, 'Lawrence of Arabia', 1962, 216, 'English', '1962-12-11', 'SW'),(904, 'The Deer Hunter', 1978, 183, 'English', '1979-03-08', 'UK'),(905, 'Amadeus', 1984, 160, 'English', '1985-01-7', 'UK'),(906, 'Blade Runner', 1982, 117, 'English', '1982-09-09', 'UK'),(907, 'Eyes Wide Shut', 1999, 159, 'English', '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', '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', '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, 'Japanes', '1954-04-2', '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'));
```

```
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, 920),215, 922),(221, 923));
```

```
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,
1011),(906, 1012),(904, 1013));
```

```
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),(908, 9007, 8.6, 779489),(909, 9008, 227235),(9910, 9009,
3, 195961),(911, 9010, 8.1, 203875),(912, 9011, 8.4),(914, 9013, 7, 862618),(915,
9001, 7.7, 830095),(916, 9014, 4, 642132),(925, 9015, 7.7, 81238),(918, 9016,
580301),(920, 9017, 8.1, 609451),(921, 9018, 8, 667758),(922, 9019, 8.4,
511613),(923, 9020, 6.7, 13091));
```

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

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

```
select mov_title, gen_title from movie natural join movie_genres natural join genres
WHERE gen_title = 'Horror';
```

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

```
select reviewer.rev_name from reviewer, rating WHERE rating.rev_id =  
reviewer.rev_id AND rating.rev_stars >= 8.0 AND reviewer.rev_name IS NOT NULL;
```

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  
IN(select mov_id from movie WHERE mov_title = 'Deliverance');
```

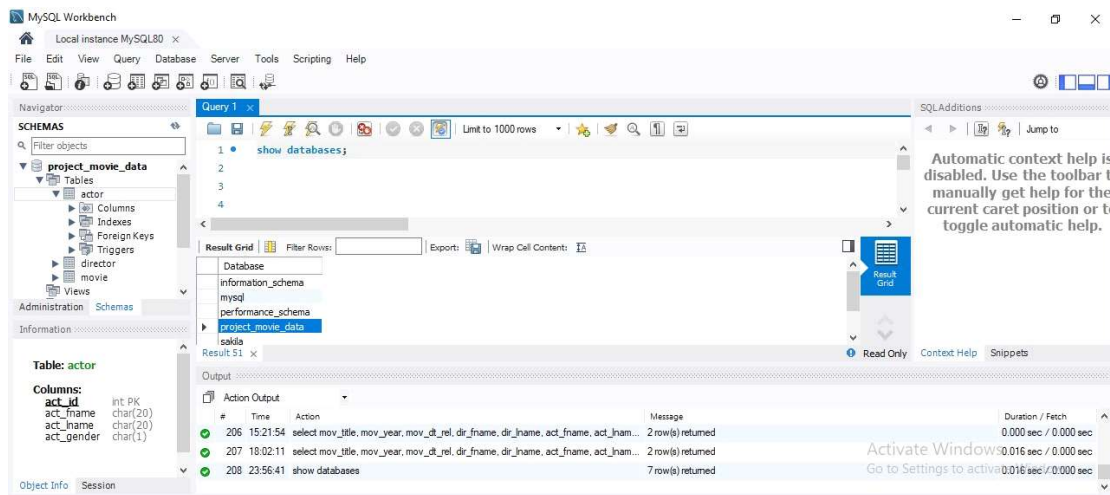
6. Write a query in SQL to find the name of the director (first and last names) who directed a movie that casted a role for 'Eyes Wide Shut'. (using subquery)

```
select dir_fname, dir_lname, mov_title from director natural join movie_direction  
natural join movie natural join movie_cast WHERE role IS NOT NULL AND mov_title =  
'Eyes Wide Shut';
```

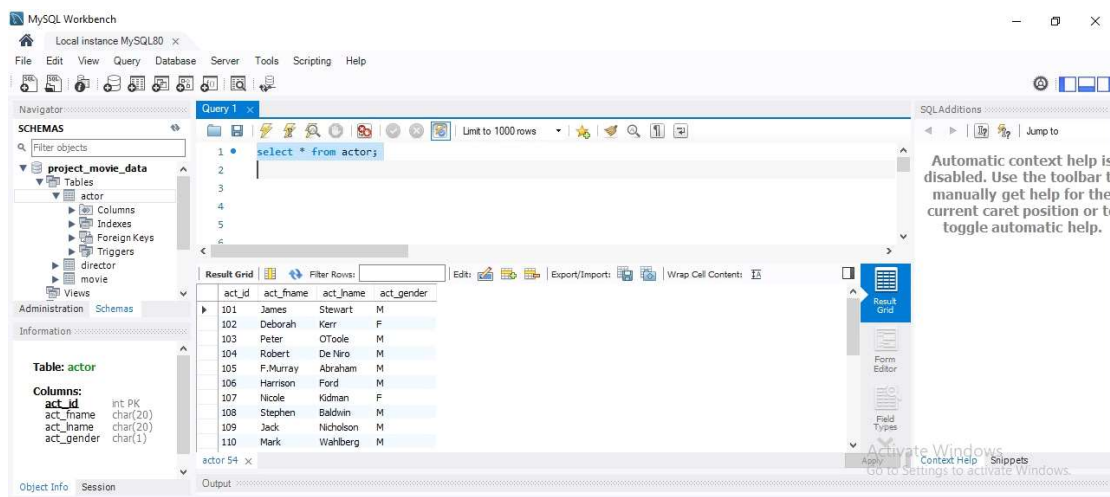
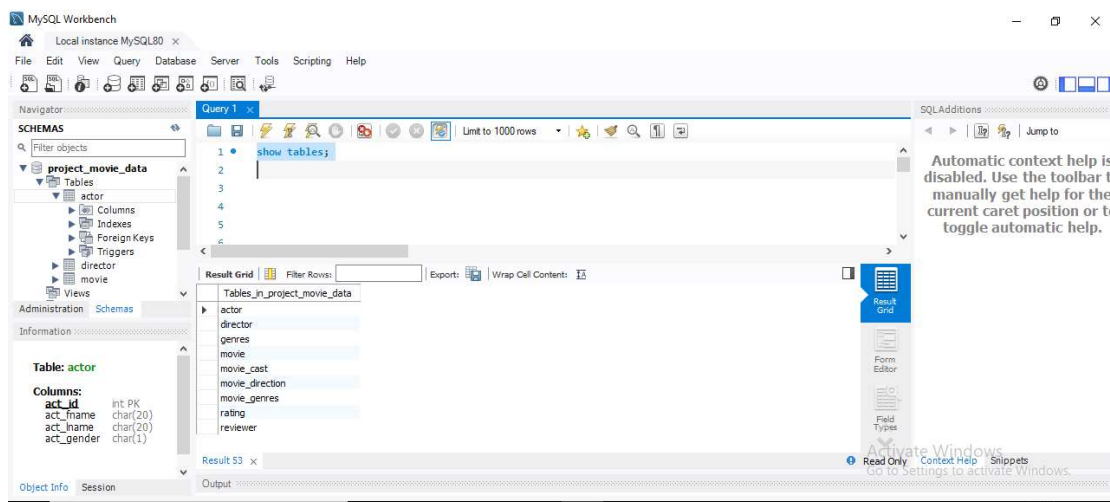
7. Write a query in SQL to find the movie title, year, date of release, director, and actor for those movies which reviewer is 'Neal Wruick'.

```
select mov_title, mov_year, mov_dt_rel, dir_fname, dir_lname, act_fname,  
act_lname 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 Wruick';
```

1. OUTPUT



2.OUTPUT



MySQL Workbench

Local instance MySQL80 x

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Navigator

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project_movie_data

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Information

Table: actor

Columns:

act_id int PK

act_fname char(20)

act_lname char(20)

act_gender char(1)

Query1 x

1 select * from actor;

2

3

4

5

6

Result Grid

act_id	act_fname	act_lname	act_gender
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

actor 54 x

Output

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

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MySQL Workbench

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Information

Table: actor

Columns:

act_id int PK

act_fname char(20)

act_lname char(20)

act_gender char(1)

Query1 x

1 select * from actor;

2

3

4

5

6

Result Grid

act_id	act_fname	act_lname	act_gender
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	Atson	M
124	Alli	Astin	F

actor 54 x

Output

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Information

Table: actor

Columns:

act_id int PK

act_fname char(20)

act_lname char(20)

act_gender char(1)

Query1 x

1 select * from director;

2

3

4

5

6

Result Grid

dir_id	dir_fname	dir_lname
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

director 55 x

Output

SQLAdditions

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Information

Table: actor

Columns:

act_id int PK

act_fname char(20)

act_lname char(20)

act_gender char(1)

Query 1

1 select * from director;

2

3

4

5

6

Result Grid

dir_id	dir_fname	dir_lname
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

director 55 x

Output

SQLAdditions

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Information

Table: actor

Columns:

act_id int PK

act_fname char(20)

act_lname char(20)

act_gender char(1)

Query 1

1 select * from genres;

2

3

4

5

Result Grid

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

genres 56 x

Output

SQLAdditions

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Information

Table: actor

Columns:

act_id int PK

act_fname char(20)

act_lname char(20)

act_gender char(1)

Query 1

1 select * from movie_cast;

2

3

4

5

Result Grid

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 Salleri
106	906	Rick Deckard
107	907	Alice Harford
108	908	McManus
110	910	Eddie Adams
111	911	Alvy Singer
112	912	San

movie_cast 57 x

Output

SQLAdditions

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Information

Table: actor

Columns:

act_id int PK

act_fname char(20)

act_name char(20)

act_gender char(1)

Query:1

1 select * from movie;

2

3

4

5

Result Grid

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		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

movie 58 x

Object Info Session Output

SQL Additions

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Information

Table: actor

Columns:

act_id int PK

act_fname char(20)

act_name char(20)

act_gender char(1)

Query:1

1 select * from movie_direction;

2

3

4

5

Result Grid

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

movie_direction 59 x

Object Info Session Output

SQL Additions

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Information

Table: actor

Columns:

act_id int PK

act_fname char(20)

act_name char(20)

act_gender char(1)

Query:1

1 select * from movie_genres;

2

3

4

5

Result Grid

mov_id	gen_id
922	1001
917	1002
903	1002
912	1003
911	1005
908	1006
913	1006
926	1007
928	1007
918	1007
921	1007

movie_genres 60 x

Object Info Session Output

SQL Additions

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Information

Table: actor

Columns:

act_id int PK

act_fname char(20)

act_lname char(20)

act_gender char(1)

Query 1

1 select * from ratings;

Result Grid

mov_id	rev_id	rev_stars	num_o_ratings
901	9001	8	263575
902	9002	8	20207
903	9003	8	202778
906	9005	8	484746
924	9006	7	10000
908	9007	9	779489
909	9008	NULL	227235
909	9008	NULL	227235
910	9009	3	195961
911	9010	8	203875
912	9011	8	10000

rating 61

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Information

Table: actor

Columns:

act_id int PK

act_fname char(20)

act_lname char(20)

act_gender char(1)

Query 1

1 select * from reviewer;

Result Grid

rev_id	rev_name
9001	Righty Sock
9002	Jack Malvern
9003	Flagrant Baronessa
9004	Alec Shaw
9005	10000
9006	Victor Woeltjen
9007	Smo Wight
9008	Neal Wruck
9009	Paul Monks
9010	Mike Salvati
9011	10000

reviewer 62

Object Info Session Output

SQL Additions

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Administration Schemas

Information

Table: actor

Columns:

act_id int PK

act_fname char(20)

act_lname char(20)

act_gender char(1)

Query 1

1 desc actor;

Result Grid

Field	Type	Null	Key	Default	Extra
act_id	int	NO	PK		
act_fname	char(20)	YES			
act_lname	char(20)	YES			
act_gender	char(1)	YES			

Result 63

Object Info Session Output

SQL Additions

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Information

Table: actor

Columns:

act_id int PK

act_fname char(20)

act_lname char(20)

act_gender char(1)

Object Info Session

Query:1

1 desc director;

2

3

4

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Result Grid

Field	Type	Null	Key	Default	Extra
dir_id	int	NO	PRI		
dir_fname	char(20)	YES			
dir_lname	char(20)	YES			

Result 64 x

Output

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Information

Table: actor

Columns:

act_id int PK

act_fname char(20)

act_lname char(20)

act_gender char(1)

Object Info Session

Query:1

1 desc genres;

2

3

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Result Grid

Field	Type	Null	Key	Default	Extra
gen_id	int	NO	PRI		
gen_title	char(20)	YES			

Result 65 x

Output

SQLAdditions

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MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

Filter objects

project_movie_data

Tables

actor

Columns

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Foreign Keys

Triggers

director

movie

Views

Administration Schemas

Information

Table: actor

Columns:

act_id int PK

act_fname char(20)

act_lname char(20)

act_gender char(1)

Object Info Session

Query:1

1 desc movie_cast;

2

3

4

5

Result Grid

Field	Type	Null	Key	Default	Extra
act_id	int	YES	MUL		
mov_id	int	YES	MUL		
role	char(30)	YES			

Result 66 x

Output

SQLAdditions

Automatic context help is disabled. Use the toolbar manually get help for the current caret position or toggle automatic help.

Activate Windows

Go to Settings to activate Windows.

MySQL Workbench

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Information

Table: actor

Columns:

act_id int PK

act_fname char(20)

act_lname char(20)

act_gender char(1)

Query 1 x

1 desc movie;

2

3

4

5

Result Grid

Field	Type	Null	Key	Default	Extra
mov_id	int	NO	PR		
mov_title	char(50)	YES			
mov_year	int	YES			
mov_time	int	YES			
mov_lang	char(50)	YES			
mov_dt_rel	date	YES			
mov_rel_country	char(5)	YES			

Result 67 x

Read Only

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Context Help

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MySQL Workbench

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Information

Table: actor

Columns:

act_id int PK

act_fname char(20)

act_lname char(20)

act_gender char(1)

Query 1 x

1 desc movie_direction;

2

3

4

5

Result Grid

Field	Type	Null	Key	Default	Extra
dir_id	int	YES	MUL		
mov_id	int	YES	MUL		

Result 68 x

Read Only

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Activate Windows

Context Help

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MySQL Workbench

Local instance MySQL80 x

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Information

Table: actor

Columns:

act_id int PK

act_fname char(20)

act_lname char(20)

act_gender char(1)

Query 1 x

1 desc movie_genres;

2

3

4

5

Result Grid

Field	Type	Null	Key	Default	Extra
mov_id	int	YES	MUL		
gen_id	int	YES	MUL		

Result 69 x

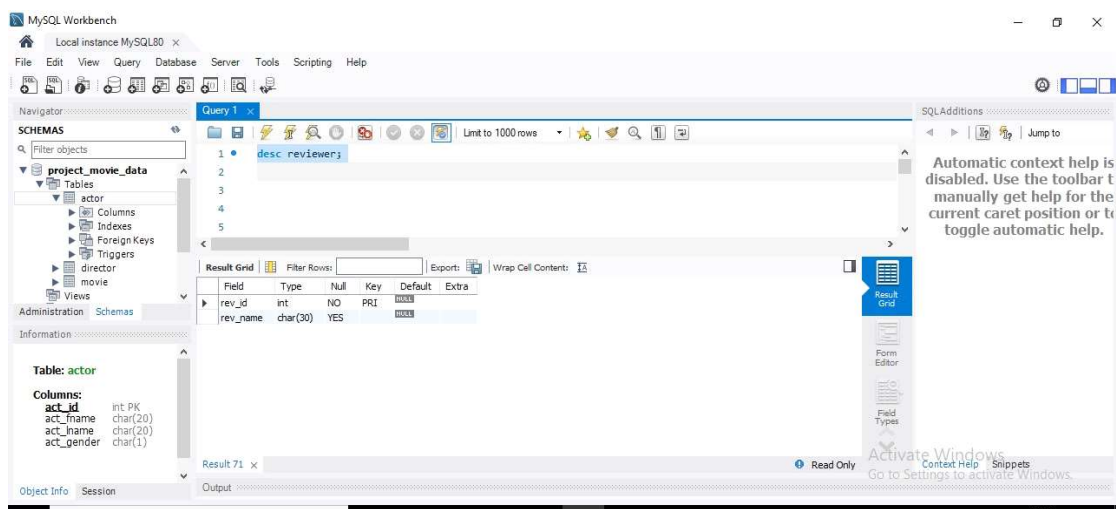
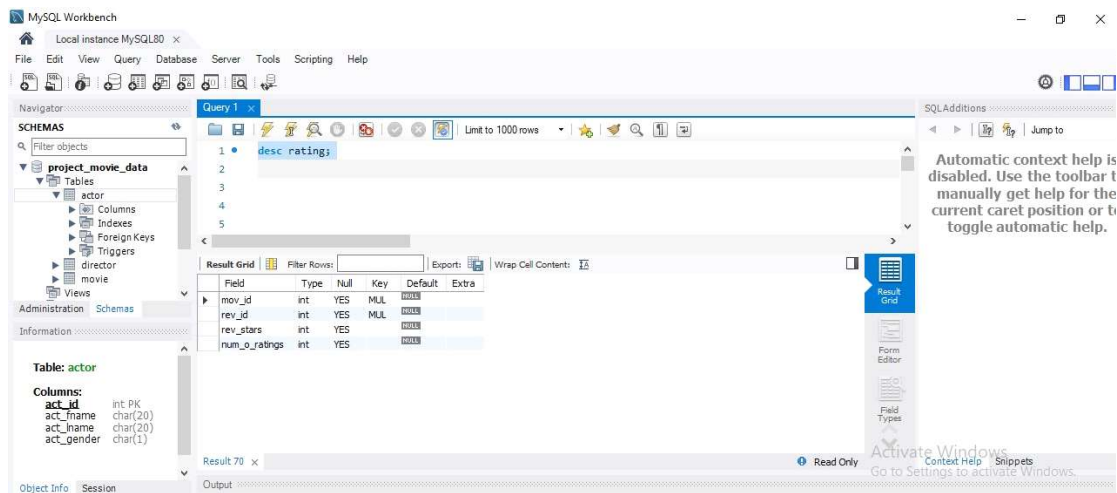
Read Only

Automatic context help is disabled. Use the toolbar manually get help for the current caret position or toggle automatic help.

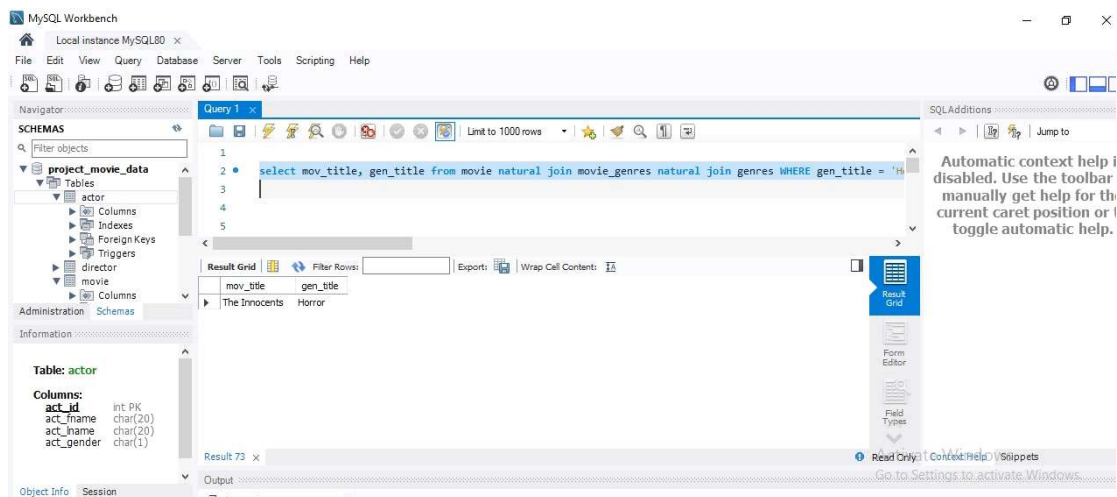
Activate Windows

Context Help

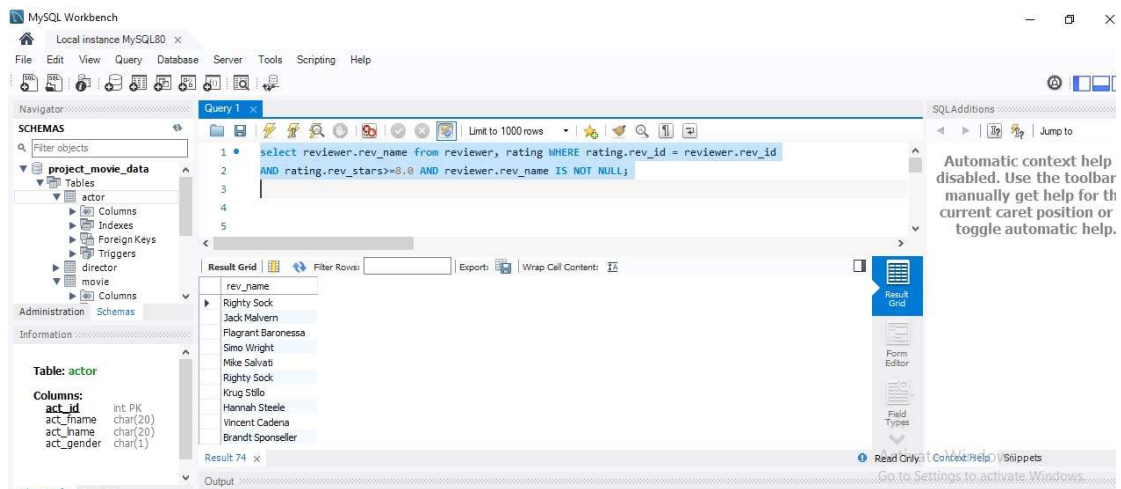
Go to Settings to activate Windows.



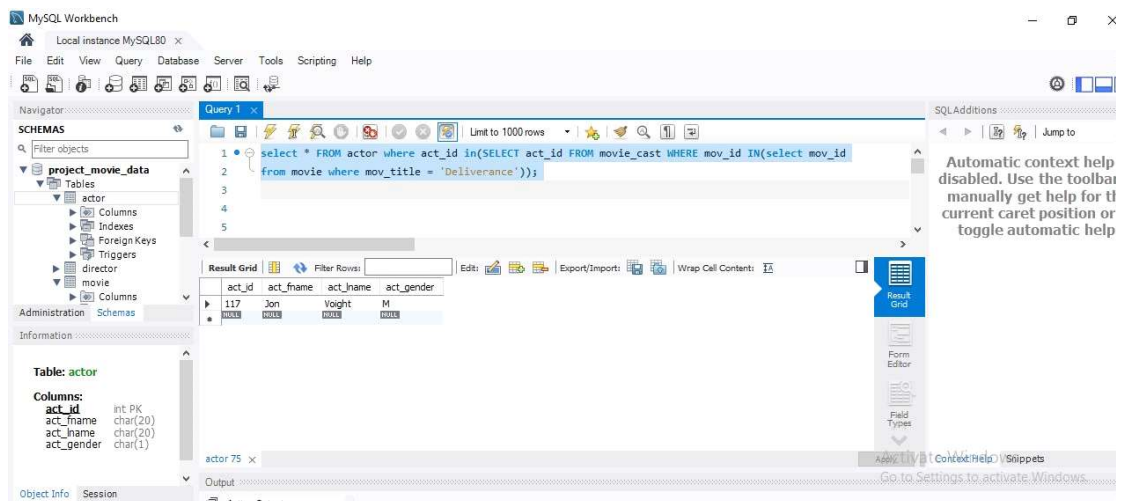
3.OUTPUT



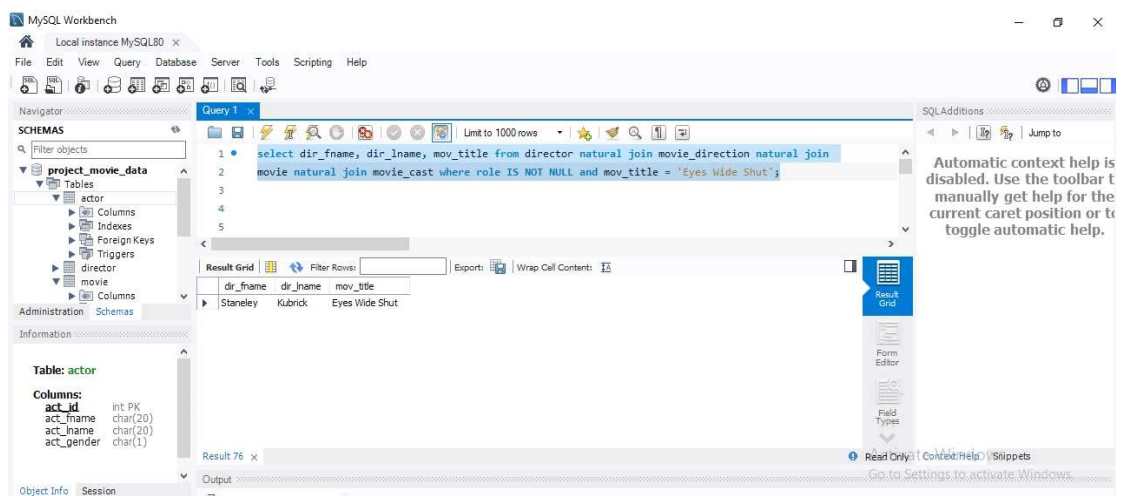
4.OUTPUT



5.OUTPUT



6.OUTPUT



7.OUTPUT

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- actor
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 - Columns

Administration Schemas

Information

Table: actor

Columns:

- act_id int PK
- act_fname char(20)
- act_lname char(20)
- act_gender char(1)

Query:1

```
1 select mov_title, mov_year, mov_dt_rel, dir_fname, dir_lname, act_fname, act_lname
2 from movie a, movie_direction b, director c, rating d, reviewer e, actor f, movie_cast g
3 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
4 a.mov_id = g.mov_id and g.act_id = f.act_id and e.rev_name = 'Neal Wruick';
5
```

Result Grid

mov_title	mov_year	mov_dt_rel	dir_fname	dir_lname	act_fname	act_lname
Chinatown	1974	1974-08-09	Roman	Polanski	Jack	Nicholson
Chinatown	1974	1974-08-09	Roman	Polanski	Jack	Nicholson

SQLAdditions

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