

# PROJECT REPORT

Team-16

## **Team Members:**

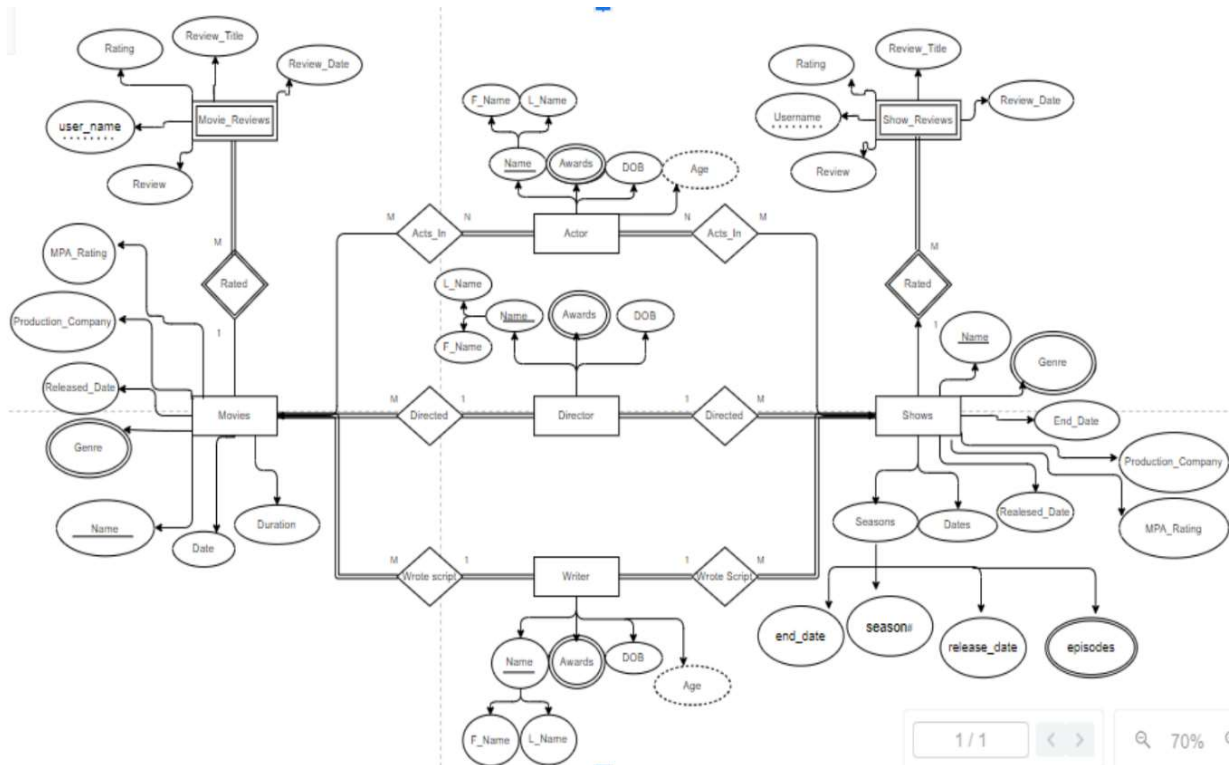
Dilli Kadariya

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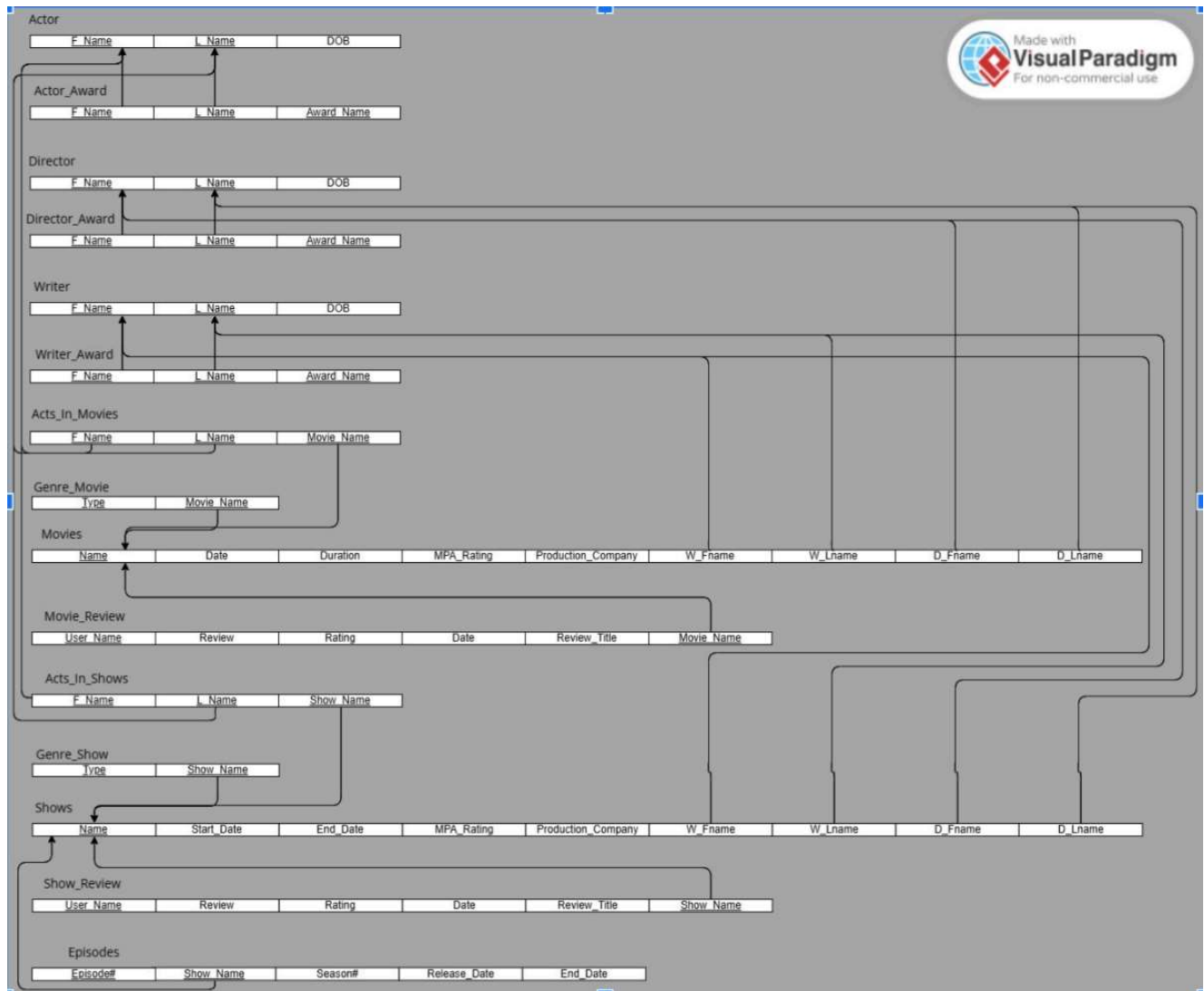
Anthony Hernandez

# ER DIAGRAM



- The finalized ER diagram is used as the foundation of the project and is referenced throughout all the steps. As the base and starting point, we use entities like *Actors*, *Directors*, *Writers*, *Show*, *Show\_Reviews*, *Movie*, and *Movie\_Review* as our main tables when coding them into the Oracle database. Similarly, the attributes like Name, Awards, MPA\_Rating and all the other attributes are created and used as a Primary or Foreign Key as required to match up the table and create a link between them.

## Relational Schema



- The finalized relational schema displays all the tables along with their primary keys, foreign keys, and attributes. It also illustrates how each foreign key connects to the corresponding values in other tables. This schema is later implemented in Oracle to create the project's database.

(*director\_award*, *writer\_award*, *actor\_awards*) together, to simplify debugging and error correction.

## PICTURES FROM CODE AND DATA

### INSERTION

Table altered.

Table altered.

Table altered.

Table altered.

Table altered.

Table altered.

Table altered.

Table altered.

8 rows created.

7 rows created.

11 rows created.

5 rows created.

5 rows created.

5 rows created.

5 rows created.

5 rows created.

5 rows created.

8 rows created.

6 rows created.

5 rows created.

Name	Null?	Type
MOVIE_NAME	NOT NULL	VARCHAR2(35)
MOVIE_DURATION		VARCHAR2(15)
GENRE		VARCHAR2(15)
MPA_RATING		VARCHAR2(10)
RELEASE_DATE		DATE
COMPANY		VARCHAR2(35)
D_FNAME	NOT NULL	VARCHAR2(25)
D_LNAME	NOT NULL	VARCHAR2(25)
W_FNAME	NOT NULL	VARCHAR2(25)
W_LNAME	NOT NULL	VARCHAR2(25)
Name	Null?	Type
USER_NAME	NOT NULL	VARCHAR2(15)
REVIEW_TITLE	NOT NULL	VARCHAR2(35)
REVIEW	NOT NULL	VARCHAR2(200)
RATING		NUMBER

REVIEW_DATE	DATE
MOVIE_NAME	VARCHAR2(35)
Name	Null?
Type	
FNAME	NOT NULL
LNAME	NOT NULL
MOVIE_NAME	NOT NULL
Name	Null?
Type	
SHOWNAME	NOT NULL
STARTDATE	DATE
ENDDATE	DATE
MPA_RATING	NUMBER(30)
PRODUCTIONCOMPANY	VARCHAR2(200)
W_FNAME	VARCHAR2(15)
W_LNAME	VARCHAR2(15)
D_FNAME	VARCHAR2(15)
D_LNAME	VARCHAR2(15)
Name	Null?
Type	
USERNAME	NOT NULL
REVIEW	VARCHAR2(255)
RATING	NUMBER(30)
REVIEWDATE	DATE
REVIEWTITLE	VARCHAR2(25)
SHOWNAME	VARCHAR2(25)
Name	Null?
Type	
F_NAME	NOT NULL
L_NAME	NOT NULL
SHOWNAME	NOT NULL
Name	Null?
Type	
F_NAME	NOT NULL
L_NAME	NOT NULL
DOB	DATE
Name	Null?
Type	
AWARD_NAME	NOT NULL
AWARD_YEAR	NUMBER
F_NAME	VARCHAR2(25)
L_NAME	VARCHAR2(25)
Name	Null?
Type	
F_NAME	NOT NULL
L_NAME	NOT NULL
DOB	DATE
Name	Null?
Type	
AWARD_NAME	NOT NULL
AWARD_YEAR	NUMBER
F_NAME	VARCHAR2(25)
L_NAME	VARCHAR2(25)
Name	Null?
Type	
F_NAME	NOT NULL
L_NAME	NOT NULL
DOB	DATE
Name	Null?
Type	
AWARD_NAME	NOT NULL
AWARD_YEAR	NUMBER
F_NAME	VARCHAR2(25)
L_NAME	VARCHAR2(25)

SQL> |

```
SQL> SELECT * FROM Actor;
```

F_NAME	L_NAME	DOB
Leonardo	DiCaprio	11-NOV-74
Joseph	Gordon-Levitt	17-FEB-81
Meryl	Streep	22-JUN-49
Tom	Hanks	09-JUL-56
Denzel	Washington	28-DEC-54
Jeremy	Renner	07-JAN-71
Scarlett	Johansson	22-NOV-84
Robert	De Niro	17-AUG-43

8 rows selected.

```
SQL> |
```

```
SQL> SELECT * FROM Director;
```

F_NAME	L_NAME	DOB
Christopher	Nolan	30-JUL-70
David	Fincher	28-AUG-62
Steven	Spielberg	18-DEC-46
Quentin	Tarantino	27-MAR-63
Kathryn	Bigelow	27-NOV-51
Martin	Scorsese	17-NOV-42
Bong	Joon Ho	14-SEP-69

7 rows selected.

```
SQL> |
```

```
SQL> SELECT * FROM Writer;
```

F_NAME	L_NAME	DOB
Aaron	Sorkin	09-JUN-61
Nora	Ephron	19-MAY-41
Charlie	Kaufman	19-NOV-58
Greta	Gerwig	04-AUG-83
Jordan	Peele	21-FEB-79
Jonathan	Nolan	06-JUN-76
Quentin	Tarantino	27-MAR-63
Mark	Boal	01-JAN-73
Steven	Zaillian	30-JAN-53
Christopher	Nolan	30-JUL-70
Vince	Gilligan	10-FEB-67

11 rows selected.

```
SQL> |
```

```
SQL> SELECT * FROM Actor_Award;
```

```
AWARD_NAME
```

AWARD_YEAR	F_NAME	L_NAME
Academy Award - DiCaprio 2016 Leonardo		DiCaprio
Golden Globe - DiCaprio 2016 Leonardo		DiCaprio
Academy Award - Streep 1983 Meryl		Streep

```
AWARD_NAME
```

AWARD_YEAR	F_NAME	L_NAME
Golden Globe - Washington 2007 Denzel		Washington
BAFTA Award - Johansson 2020 Scarlett		Johansson

```
SQL> |
```

```
SQL> SELECT * FROM Writer_Award;
```

```
AWARD_NAME
```

AWARD_YEAR	F_NAME	L_NAME
Academy Award for Best Original Screenplay 2011 Aaron		Sorkin
Golden Globe for Best Screenplay 2010 Christopher		Nolan
Writers Guild Award - 2011 2011 Aaron		Sorkin

```
AWARD_NAME
```

AWARD_YEAR	F_NAME	L_NAME
BAFTA Award 2014 Jonathan		Nolan
Writers Guild Award - 1998 1998 Vince		Gilligan

```
SQL> |
```

```
SQL> SELECT * FROM movies;
```

MOVIE	NAME	RELEASE_D	COMPANY	MOVIE	DURATION	D_FNAME	GENRE	MPA_RATING
D_LNAME	W_FNAME	W_LNAME						
Inception	16-JUL-10	Warner Bros	Jonathan	2h 28m	Sci-Fi	PG-13		
Nolan					Christopher Nolan			
The Social Network	01-OCT-10	Columbia Pictures	Aaron	2h 00m	Drama	PG-13		
Fincher					David Sorkin			
Pulp Fiction	14-OCT-94	Miramax Films	Quentin	2h 34m	Crime	R		
Tarantino					Quentin Tarantino			
The Hurt Locker	26-JUN-08	Summit Entertainment		2h 11m	War	R		
					Kathryn			
The Irishman	27-NOV-19	Netflix	Steven	3h 29m	Crime	R		
Scorsese					Martin Zaillian			

```
SQL> |
```

```

SQL> SELECT * FROM movie_review;

USER_NAME      REVIEW_TITLE
-----
REVIEW
-----
RATING REVIEW_DA MOVIE_NAME
-----
john_doe      Mind-Bending Thriller
Inception is a masterpiece that challenges the boundaries of reality and dreams.
5 01-DEC-24 Inception

jane_smith    A Social Media Saga
The Social Network offers a gripping portrayal of ambition and betrayal.
4 02-DEC-24 The Social Network

USER_NAME      REVIEW_TITLE
-----
REVIEW
-----
RATING REVIEW_DA MOVIE_NAME
-----

alice_jones    Quentin's Best
Pulp Fiction is a timeless classic with unforgettable characters and dialogue.
5 03-DEC-24 Pulp Fiction

bob_brown     Intense and Gripping
The Hurt Locker provides a raw and intense look into the life of a bomb disposal

USER_NAME      REVIEW_TITLE
-----
REVIEW
-----
RATING REVIEW_DA MOVIE_NAME
-----

expert.       4 04-DEC-24 The Hurt Locker

charlie_davis  Epic Crime Drama
The Irishman is a compelling and epic tale of crime and loyalty over decades.
5 05-DEC-24 The Irishman

USER_NAME      REVIEW_TITLE
-----
REVIEW
-----
RATING REVIEW_DA MOVIE_NAME
-----

danielle_taylor War is Hell
The Hurt Locker offers a gripping and realistic portrayal of war through the eye
s of a bomb disposal expert.
4 06-DEC-24 The Hurt Locker

6 rows selected.

SQL> |

```



```
SQL> SELECT * FROM tv_shows;
```

SHOWNAME		STARTDATE	ENDDATE	MPARATING	PRODUCTIONCOMPANY
W_FNAME	W_LNAME	D_FNAME		D_LNAME	
Breaking Bad	Gilligan	20-JAN-08	29-SEP-13	9	AMC
Vince		Bryan		Cranston	
Game of Thrones	Benioff	17-APR-11	19-MAY-19	9	HBO
David		D.B.		Weiss	
Stranger Things	Duffer	15-JUL-16		8	Netflix
The		Matt		Duffer	
SHOWNAME		STARTDATE	ENDDATE	MPARATING	PRODUCTIONCOMPANY
W_FNAME	W_LNAME	D_FNAME		D_LNAME	
The Crown	Morgan	04-NOV-16		8	Netflix
Peter		Stephen		Daltry	
The Mandalorian	Favreau	12-NOV-19		8	Disney+
Jon		Dave		Filoni	

```
SQL> |
```

```
SQL> SELECT * FROM show_reviews;
```

```
USERNAME
```

```
REVIEW
```

RATING	REVIEWDAT	REVIEWTITLE	SHOWNAME
jesse_pinkman			
Breaking Bad is a masterclass in storytelling, taking viewers on an unforgettable journey of moral decay and redemption. Walter White's transformation is both terrifying and fascinating.			
5	01-DEC-24	Chemistry of Perfection	Breaking Bad

```
dragonqueen
```

```
USERNAME
```

```
REVIEW
```

RATING	REVIEWDAT	REVIEWTITLE	SHOWNAME
Game of Thrones redefined television with its complex characters, shocking twists, and intricate political drama. The final season may divide opinions, but its legacy is undeniable.			
4	02-DEC-24	Throne of Greatness	Game of Thrones

```
upside_downer
```

Stranger Things combines 1980s nostalgia with supernatural horror, creating a t

```
USERNAME
```

```
REVIEW
```

RATING	REVIEWDAT	REVIEWTITLE	SHOWNAME
thrilling and emotional rollercoaster. The kids' performances are fantastic, making it a standout show.			
5	03-DEC-24	Nostalgic Thrills	Stranger Things

```
royal_obsessed
```

The Crown is a lavish and insightful look into the life of the British monarchy. Its attention to historical detail and phenomenal acting make it a must-watch.

```
USERNAME
```

```
REVIEW
```

RATING	REVIEWDAT	REVIEWTITLE	SHOWNAME
5	04-DEC-24	A Royal Achievement	The Crown

baby\_yoda\_fan

The Mandalorian brings the Star Wars universe to life with a mix of adventure, heart, and unforgettable characters. Grogu (Baby Yoda) steals every scene!

5	05-DEC-24	The Way of Great TV	The Mandalorian
---	-----------	---------------------	-----------------

```
SQL> |
```

## PART- 2: Queries:

**QUERY1:** This query selects the movies name , rating and its genre from the table movies.

```
SQL> select movieName, MPA_Rating, Genre from movies;
```

MOVIENAME	MPA_RATING	GENRE
Inception	PG-13	Sci-Fi
The Social Network	PG-13	Drama
Pulp Fiction	R	Crime
The Hurt Locker	R	War
The Irishman	R	Crime

```
SQL>
```

**QUERY2:** This query shows the first name and last name for a person who directs and has acted in a movie from both Actors and Director tables.

```
SQL> select
  2 Actor.F_name as AF_name, Actor.L_name as AL_name,
  3 Director.F_name as DF_name, Director.L_name as DL_name
  4 from
  5 Actor, Director
  6 where
  7 Director.F_name=Actor.F_name;
```

AF_NAME	AL_NAME	DF_NAME
Robert	De Niro	Robert
De Niro		

**QUERY3:** This query shows the show name and movie name for a movie and shows with the same names.

```
SQL>      select
2      showname, movieName
3      from
4      tv_shows, movies
5      where
6      tv_shows.D_Fname=movies.D_Fname;

no rows selected
```

**QUERY4:** This query joins 3 tables (Act\_in\_movie, actor\_awards, actor and joins the data based on their first and last name.

```
SQL> SELECT *
2 FROM actor
3 JOIN act_in_movies ON actor.f_name = act_in_movies.Fname AND actor.l_name = act_in_movies.Lname
4 JOIN actor_award ON actor.f_name = actor_award.F_name AND actor.l_name = actor_award.L_name;
```

F_NAME	L_NAME	DOB
Leonardo	DiCaprio	11-NOV-74
Leonardo	DiCaprio	
Inception		

AWARD_YEAR	F_NAME	L_NAME
Academy Award	DiCaprio	

**QUERY5:** This query joins 3 tables (Director , director\_awards, movies ) according to their first and last names.

```
SQL> SELECT *
2 FROM director
3 JOIN director_award
4   ON director.f_name = director_award.F_name
5   AND director.l_name = director_award.L_name
6 JOIN movies
7   ON director.f_name = movies.D_Fname
8   AND director.l_name = movies.D_Lname;
```

F_NAME	L_NAME	DOB	
-----			
AWARD_NAME			
-----			
AWARD_YEAR	F_NAME	L_NAME	
-----			
MOVIE	DURATION	GENRE	MPA_RATING
-----			
RELEASE_DATE	COMPANY	D_FNAME	
-----			
D_LNAME	W_FNAME	W_LNAME	
-----			
Christopher	Nolan	30-JUL-70	
-----			
F_NAME	L_NAME	DOB	
-----			
AWARD_NAME			
-----			
AWARD_YEAR	F_NAME	L_NAME	
-----			
MOVIE	DURATION	GENRE	MPA_RATING
-----			
RELEASE_DATE	COMPANY	D_FNAME	
-----			
D_LNAME	W_FNAME	W_LNAME	
-----			
Golden Globe for Best Director			
-----			
F_NAME	L_NAME	DOB	
-----			

D_LNAME	W_FNAME	W_LNAME	
-----			
Inception	2h 28m	Sci-Fi	PG-13
-----			
F_NAME	L_NAME	DOB	
-----			
AWARD_NAME			
-----			
AWARD_YEAR	F_NAME	L_NAME	
-----			
MOVIE	DURATION	GENRE	MPA_RATING
-----			
RELEASE_DATE	COMPANY	D_FNAME	
-----			
D_LNAME	W_FNAME	W_LNAME	
-----			
16-JUL-10 Warner Bros		Christopher	
-----			
F_NAME	L_NAME	DOB	
-----			
AWARD_NAME			
-----			
AWARD_YEAR	F_NAME	L_NAME	
-----			
MOVIE	DURATION	GENRE	MPA_RATING
-----			
RELEASE_DATE	COMPANY	D_FNAME	
-----			
D_LNAME	W_FNAME	W_LNAME	
-----			
Nolan	Jonathan	Nolan	
-----			
F_NAME	L_NAME	DOB	
-----			
AWARD_NAME			
-----			
AWARD_YEAR	F_NAME	L_NAME	
-----			
MOVIE	DURATION	GENRE	MPA_RATING
-----			
RELEASE_DATE	COMPANY	D_FNAME	
-----			
D_LNAME	W_FNAME	W_LNAME	
-----			

**QUERY7:** The query uses a **UNION** operation to combine data of two tables **AND** filters the results to include only entries with a rating greater than 3.0.

```
SQL> SELECT
  2  Movie_name AS Title,
  3  Rating,
  4  'Movie' AS Type
  5  FROM
  6  movie_review
  7  WHERE
  8  Rating > 3.0
  9  UNION
 10  SELECT
 11  showname AS Title,
 12  rating,
 13  'TV Show' AS Type
 14  FROM
 15  show_reviews
 16  WHERE
 17  rating > 3.0;
```

TITLE	RATING	TYPE
Breaking Bad	5	TV Show
Game of Thrones	4	TV Show
Inception	5	Movie
Pulp Fiction	5	Movie
Stranger Things	5	TV Show
The Crown	5	TV Show
The Hurt Locker	4	Movie
The Irishman	5	Movie
The Mandalorian	5	TV Show
The Social Network	4	Movie

10 rows selected.

```
SQL>
```

**QUERY8:** The query uses a **MINUS** operation to combined data of two tables AND filters out actors only acted in movies and haven't directed.

```
SQL> SELECT
  2     F_name AS First_Name,
  3     L_name AS Last_Name
  4 FROM
  5     acts_in_show
  6 MINUS
  7 SELECT
  8     Fname AS First_Name,
  9     Lname AS Last_Name
 10 FROM
 11     act_in_movies;
```

FIRST_NAME	LAST_NAME
Aaron	Paul
Bryan	Cranston
Emilia	Clarke
Millie	Bobby Brown
Peter	Dinklage

**QUERY9:** The query uses a **GROUP BY** operation to group and count the amount of MOVIES with respective reviews.

```
SQL> SELECT
  2 Rating,
  3 COUNT(*) AS Review_Count
  4 FROM
  5 movie_review
  6 GROUP BY
  7 Rating
  8 ORDER BY
  9 Rating ASC;
```

RATING	REVIEW_COUNT
4	3
5	3

```
SQL>
```

**QUERY10:** The query uses a **GROUP BY** operation to group and count the amount of MOVIES directed by the respective directors.

```
SQL> SELECT
  2  D_Fname AS Director_First_Name,
  3  D_Lname AS Director_Last_Name,
  4  COUNT(*) AS Total_Movies
  5  FROM
  6  movies
  7  GROUP BY
  8  D_Fname, D_Lname
  9  ORDER BY
 10  Total_Movies DESC;
```

DIRECTOR_FIRST_NAME	DIRECTOR_LAST_NAME	TOTAL_MOVIES
Christopher	Nolan	1
Quentin	Tarantino	1
Kathryn	Bigelow	1
David	Fincher	1
Martin	Scorsese	1

```
SQL>
```