Movie & TV Analytics SQL Project - Query Outputs

Question 1

List all shows (titles and descriptions) that were directed by **male directors**, along with the directors' full names.

Sort the results alphabetically by show title.

```
645   -- =======================================================
646   -- Q1:
647   -- List all shows' name (with their descriptions) and director's name
648   -- Only shows that are directed by male directors
649   -- Order by show Title
650
651   SELECT s.Title, s.Description, d.FirstName + ' '+ d.LastName AS DirectorName
652   FROM Show s
653   INNER JOIN Director d ON s.DirectorID = d.DirectorID
654   WHERE d.Gender = 'M'
655   ORDER BY s.Title
656
```

Results grid

Results   Messages

	Title	Description	DirectorName
1	Atlanta	Two cousins navigate the rap industry.	Donald Glover
2	Avatar	A Marine on Pandora faces a tough choice.	James Cameron
3	Avatar: The Way of Water	The Avatar is seen as a destroyer, not a savior.	James Cameron
4	Away	A boy and a bird journey to find home	Gints Zilbalodis
5	Breaking Bad	A chemistry teacher turned meth kingpin.	Vince Gilligan
6	El Camino: A Breaking Bad Movie	Jesse Pinkman flees his past.	Vince Gilligan
7	Flow	Animals struggle as water levels rise.	Gints Zilbalodis
8	Game of Thrones	Noble families battle for a throne.	David Benioff
9	No Time to Die	A spy film in the James Bond series.	Cary Joji Fukun…
10	Pan's Labyrinth	A girl is sent to live with a ruthless stepfath…	Guillermo del T…
11	Primal	A caveman and a dinosaur fight to survive.	Genndy Tartakov…
12	Prison Break	A man plans to break his brother out.	Brett Ratner
13	Squid Game	Players risk lives in deadly games.	Dong-hyuk Hwang
14	The Haunting of Hill House	A family is haunted in Hill House.	Mike Flanagan
15	The Raid: Redemption	A S.W.A.T. flights to escape.	Gareth Evans
16	Yellowstone	A ranching family in Montana defends their land.	Taylor Sheridan

Question 2

Find all actors who **did not perform in any movies** listed in the database.
Sort the results by the actor's last name, then first name.

```
657    -- Q2.
658    -- List all actors that did not play any movie in the database
659    -- order by LastName, FirstName
660
661    SELECT a.FirstName + ' '+ a.LastName AS ActorName
662    FROM Actor a
663    LEFT OUTER JOIN Role r ON a.ActorID = r.ActorID
664    WHERE r.ActorID is NULL
665    ORDER BY a.LastName, a.FirstName
666
```

Results   Messages

	ActorName
1	Tom Hanks
2	Natalie Portman
3	Emma Stone
4	Denzel Washington

Question 3

List all actors who have acted in **more than one show**.
Include each show's title, character name, salary, and genre.
Sort the results by salary (highest to lowest), then show title, and finally the actor's last name.

```
667    -- Q3.
668    -- List all actors that plays more than 1 show, also list show's Title, CharacterName, Salary and Genre.
669    -- order by Salary descendingly, Title and Actor's LastName.
670
671    [Database Projects] .FirstName + ' '+ a.LastName AS ActorName, s.Title, r.CharacterName, r.Salary, g.GenreDescription
672    FROM Actor a
673    INNER JOIN Role r ON a.ActorID = r.ActorID
674    INNER JOIN Show s ON r.ShowID = s.ShowID
675    INNER JOIN Genre g ON s.GenreID = g.GenreID
676    WHERE a.ActorID IN (
677        SELECT r.ActorID
678        FROM Role r
679        GROUP BY r.ActorID
680        HAVING COUNT(r.ShowID)>1
681    )
682    ORDER BY r.Salary DESC, s.Title, a.LastName
683
```

Results | Messages

	ActorName	Title	CharacterName	Salary	GenreDescription
1	Sigourney Weaver	Avatar	Dr. Grace Augustine	11000000	Science fiction
2	Sigourney Weaver	Avatar: The Way of Water	Dr. Grace Augustine	11000000	Science fiction
3	Zoe Saldana	Avatar	Neytiri	10000000	Science fiction
4	Zoe Saldana	Avatar: The Way of Water	Neytiri	10000000	Science fiction
5	Sam Worthington	Avatar	Jake Sully	2000000	Science fiction
6	Sam Worthington	Avatar: The Way of Water	Jake Sully	2000000	Science fiction
7	Aaron Paul	El Camino: A Breaking Bad Movie	Jesse Pinkman	2000000	Thriller
8	Bryan Cranston	El Camino: A Breaking Bad Movie	Walter White	1000000	Thriller
9	Jesse Plemons	El Camino: A Breaking Bad Movie	Todd Alquist	1000000	Thriller
10	Krysten Ritter	El Camino: A Breaking Bad Movie	Jane Margolis	500000	Thriller
11	Bryan Cranston	Breaking Bad	Walter White	225000	Crime
12	Aaron Paul	Breaking Bad	Jesse Pinkman	150000	Crime
13	Jesse Plemons	Breaking Bad	Todd Alquist	50000	Crime
14	Krysten Ritter	Breaking Bad	Jane Margolis	40000	Crime

Question 4

List all **awards that have never been won** by any show.

```
684    -- Q4.
685    -- List all awards that haven't been won by any show.
686
687    SELECT a.Name
688    FROM Award a
689    LEFT OUTER JOIN ShowAward sa ON a.AwardID = sa.AwardID
690    WHERE sa.YearWon is NULL
691
```

Results   Messages

	Name ⌄
1	Palme d'Or

Question 5

List all viewers who **do not have a best friend**, along with the shows they streamed and the platforms they used.
Sort the results by the viewer's last name and first name.

```
692    -- Q5.
693    -- List all viewers, the shows' Title, and PlatformName they streamed on.
694    -- Make sure only return viewers who don't have a BestFriend
695    -- Order by LastName, FirstName
696
697    SELECT v.FirstName, v.LastName, s.Title, p.PlatformName
698    FROM Viewer v
699    LEFT OUTER JOIN Viewing vw ON v.ViewerID = vw.ViewerID
700    LEFT OUTER JOIN Show s ON vw.ShowID = s.ShowID
701    INNER JOIN Platform p ON vw.PlatformID = p.PlatformID
702    WHERE v.BestFriendID IS NULL
703    ORDER BY v.LastName, v.FirstName
704
```

Results Messages

	FirstName	LastName	Title	PlatformName
1	William	Fitchner	Breaking Bad	Netlix
2	Chau	Le	Avatar	Apple TV+
3	Chau	Le	Squid Game	Peacock

Question 6

Find the **top 3 viewers** who have watched the most movies that were streamed on **internet-based platforms**.
Return their names and the number of movies watched.
Sort the results by the number of movies viewed (descending).

```
705   -- Q6.
706   -- List top 3 viewers that watched most movies. That includes their names, counts of the movies they watched
707   -- Movies must be streamed on Internet-based platform.
708   -- Order by top streamers (because we're doing top 3)
709
710   SELECT TOP 3 v.FirstName, v.MI, v.LastName, COUNT(vw.ShowID) AS numShowsViewed
711   FROM Viewer v
712   INNER JOIN Viewing vw ON v.ViewerID = vw.ViewerID
713   INNER JOIN Platform p ON vw.PlatformID = p.PlatformID
714   WHERE p.IsInternetBased = 1
715   GROUP BY v.FirstName, v.MI, v.LastName
716   ORDER BY COUNT(vw.ShowID) DESC
717
```

Results Messages

	FirstName	MI	LastName	numShowsViewed
1	Nobita	NULL	Nobi	3
2	Chau	B	Le	2
3	Bella	Q	Shelby	2

Question 7

List all shows where the **difference between the average viewer rating and the IMDB rating** is **no more than 10%**.
Only include shows that have been watched at least once.
Display the show title, IMDB rating, and the percentage difference.
Sort by the calculated percentage difference.

```
718    -- Q7.
719    -- List shows where:
720    -- The difference between average viewer's first-watch rating & the IMDB rating
721    -- (will be called viewerRatingDev) is no more than 10%.
722    -- Only list the shows that's been watched by at least 1 viewer (By inner joining Viewing table)
723    -- Display the show's title, IMDB rating, and the percentage difference.
724    -- Assume every movie has a unique title
725    -- Order by viewerRatingDev
726
727    SELECT s.Title, s.IMDBRating, ((AVG(vw.ViewerRatingStars)- s.IMDBRating)/s.IMDBRating)*100 AS viewerRatingDev
728    FROM Show s
729    INNER JOIN Viewing vw ON s.ShowID = vw.ShowID
730    GROUP BY s.Title, s.IMDBRating
731    HAVING ABS((AVG(vw.ViewerRatingStars)- s.IMDBRating)/s.IMDBRating) <= .10
732    ORDER BY viewerRatingDev
733
```

Results   Messages

	Title	IMDBRating	viewerRatingDev
1	Insecure	8	-8.250000
2	Squid Game	8	-2.000000
3	I May Destroy You	8	-1.000000
4	Pan's Labyrinth	8	1.750000
5	Game of Thrones	9	2.666600
6	Breaking Bad	9	7.833300

Question 8

List all genres ranked by the **total number of awards won**, from most to least.
Include genres that haven't won any awards.

```sql
734    -- Q8.
735    -- List the genre (GenreDescription) from most rewarded awards to least (even if it has zero award)
736    -- List the total number of awards won (instead of shows) count.
737
738    SELECT g.GenreDescription, COUNT(sa.YearWon) AS numAwardsWon
739    FROM Genre g
740    LEFT OUTER JOIN Show s ON g.GenreID = s.GenreID
741    LEFT OUTER JOIN ShowAward sa ON s.ShowID = sa.ShowID
742    GROUP BY g.GenreID, g.GenreDescription
743    ORDER BY numAwardsWon DESC
744
```

Results   Messages

	GenreDescription	numAwardsWon
1	Science fiction	11
2	Fiction	6
3	Thriller	4
4	Crime	3
5	Romance	2
6	Horror	1
7	Comedy	1
8	Action	1
9	Noir	0
10	Animation	0
11	Documentary	0

Question 9

List all shows where the **total number of roles is not exactly 3**.
Return the show title and the number of characters.
Sort by the number of characters and then by title.

```
745   -- Q9.
746   -- List Show's title that number of Roles in that show is not 3
747   -- List total number of Roles for each show.
748   -- Order by count of number of Roles, title
749
750   SELECT s.Title, COUNT(r.CharacterName) AS numCharacters
751   FROM Show s
752   LEFT OUTER JOIN Role r ON s.ShowID = r.ShowID
753   GROUP BY s.Title
754   HAVING COUNT(r.CharacterName) != 3
755   ORDER BY numCharacters, s.Title
756
```

Results Messages

	Title	numCharacters
1	Away	0
2	Flow	0
3	Primal	0
4	Steven Universe: The Movie	2
5	El Camino: A Breaking Bad Movie	4
6	Breaking Bad	5

Question 10

List the **top 10 shows that pay their actors the most** in total.
Include the show title, total payment to actors, and the full name of the show's director.
Sort by total payment (descending), then director's last name and first name.

```
757   -- Q10.
758   -- Top 10 shows that pays all their actors/actresses the most (List show's title and total pay)
759   -- And name of the Director who directed that show.
760   -- Order by total pay, then director's last name, director's first name.
761
762   SELECT TOP 10 s.Title, SUM(r.Salary) AS totalPay, d.FirstName, d.LastName
763   FROM Show s
764   LEFT OUTER JOIN Role r ON s.ShowID = r.ShowID
765   INNER JOIN Director d ON s.DirectorID = d.DirectorID
766   GROUP BY s.Title, d.LastName, d.FirstName
767   ORDER BY totalPay DESC
768
769
```

Results Messages

	Title	totalPay	FirstName	LastName
1	No Time to Die	45000000	Cary Joji	Fukunaga
2	Avatar: The Way of Water	23000000	James	Cameron
3	Avatar	23000000	James	Cameron
4	Selma	13000000	Ava	DuVernay
5	The Matrix	12000000	Lana	Wachowski
6	El Camino: A Breaking Bad Movie	4500000	Vince	Gilligan
7	Pan's Labyrinth	1700000	Guillermo	del Toro
8	Steven Universe: The Movie	1600000	Rebecca	Sugar
9	Game of Thrones	1500000	David	Benioff
10	Yellowstone	1400000	Taylor	Sheridan