

# SQL CASE STUDY

Film Awards Analysis (Challenge-9)  
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# Overview:

As a Data Analyst working for a film production company, I'm tasked with analyzing the performance of films and their directors in recent awards ceremonies.

This analysis will provide insights into which films and directors have been most successful, helping to inform future production and marketing strategies.

# Tables:

MOVIES

MovieID	Title	ReleaseYear	DirectorID	Genre	PlotSummary	IMDbRating
1	The Shawshank Redemption	1994	1	Drama	(summary)	9.3
2	The Godfather	1972	2	Crime, Drama	(summary)	9.2
3	The Dark Knight	2008	3	Action, Crime, Drama	(summary)	9
4	Pulp Fiction	1994	4	Crime, Drama	(summary)	8.9
5	Forrest Gump	1994	5	Drama, Romance	(summary)	8.8
6	Inception	2010	6	Action, Sci-fi	(summary)	8.8

AWARDS

AwardID	AwardName	Category	Description	Year
1	Academy Awards	Best Picture	(description)	2023
2	Golden Globe Awards	Best Director	(description)	2023
3	BAFTA Awards	Best Actor	(description)	2023

WINNERS

WinnerID	AwardID	NominationID
1	1	1
2	2	13
3	3	9

NOMINATIONS

NominationID	MovieID	AwardID	NomineeName	Role
1	1	1	The Shawshank Redemption	Movie
2	2	1	The Godfather	Movie
3	3	1	The Dark Knight	Movie
4	1	2	Frank Darabont	Director
5	2	2	Francis Ford Coppola	Director
6	3	2	Christopher Nolan	Director
7	1	3	Tim Robbins	Actor
8	2	3	Marlon Brando	Actor
9	3	3	Christian Bale	Actor
10	4	1	Pulp Fiction	Movie
11	5	1	Forrest Gump	Movie
12	6	1	Inception	Movie
13	4	2	Quentin Tarantino	Director
14	5	2	Robert Zemeckis	Director
15	6	2	Christopher Nolan	Director
16	4	3	John Travolta	Actor
17	5	3	Tom Hanks	Actor
18	6	3	Leonardo DiCaprio	Actor

1. List all the movies released in 1994.

```
SELECT
    a.MovieID, a.Title, a.ReleaseYear
FROM
    datacoach.movies A
WHERE
    a.ReleaseYear = 1994;
```

	MovieID	Title	ReleaseYear
▶	1	The Shawshank Redemption	1994
	4	Pulp Fiction	1994
	5	Forrest Gump	1994

2. Find the average IMDb rating of all the movies in the dataset.

```
SELECT  
    ROUND(AVG(IMDbRating)) AS AvgRating  
FROM  
    datacoach.movies;
```

	AvgRating
▶	9

3. Retrieve the names of all the directors and their respective movies.

```
SELECT
    M.DirectorID, N.NomineeName AS DirectorName, M.Title
FROM
    datacoach.nominations N
    JOIN
    datacoach.movies M ON N.MovieID = M.MovieID
WHERE
    N.Role = 'Director';
```

	DirectorID	DirectorName	Title
▶	1	Frank Darabont	The Shawshank Redemption
	2	Francis Ford Coppola	The Godfather
	3	Christopher Nolan	The Dark Knight
	4	Quentin Tarantino	Pulp Fiction
	5	Robert Zemeckis	Forrest Gump
	6	Christopher Nolan	Inception

4. Find the total number of nominations each movie has received.

```
SELECT
    M.MovieID,
    M.Title,
    COUNT(N.NominationID) AS NumberofNomaniations
FROM
    datacoach.nominations N
    JOIN
    datacoach.movies M ON N.MovieID = M.MovieID
GROUP BY M.MovieID , M.Title;
```

	MovieID	Title	NumberofNomaniations
▶	1	The Shawshank Redemption	3
	2	The Godfather	3
	3	The Dark Knight	3
	4	Pulp Fiction	3
	5	Forrest Gump	3
	6	Inception	3



5. List the names of all the actors/actresses who won awards.

```
SELECT
    N.NomineeName AS ActorsName
FROM
    datacoach.nominations N
    JOIN
    datacoach.winners W ON N.AwardID = W.AwardID
WHERE
    N.Role = 'Actor';
```

	ActorsName
▶	Tim Robbins
	Marlon Brando
	Christian Bale
	John Travolta
	Tom Hanks
	Leonardo DiCaprio

6. Find the total number of nominations each director has received.

```
SELECT
    N.NomineeName AS DirectorName,
    COUNT(N.NominationID) AS TotalNominations
FROM
    datacoach.nominations N
WHERE
    N.Role = 'Director'
GROUP BY N.NomineeName
ORDER BY TotalNominations DESC;
```

	DirectorName	TotalNominations
►	Christopher Nolan	2
	Frank Darabont	1
	Francis Ford Coppola	1
	Quentin Tarantino	1
	Robert Zemeckis	1

7. List the movies that won awards for which they were nominated for.

```
SELECT
    M.Title, A.AwardName, A.Category
FROM
    datacoach.movies M
    JOIN
    datacoach.nominations N ON M.MovieID = N.MovieID
    JOIN
    datacoach.winners W ON N.NominationID = W.NominationID
    JOIN
    datacoach.awards a ON W.AwardID = A.AwardID;
```

	Title	AwardName	Category
▶	The Shawshank Redemption	Academy Awards	Best Picture
	Pulp Fiction	Golden Globe Awards	Best Director
	The Dark Knight	BAFTA Awards	Best Actor

8. Find the movie with the highest number of nominations.

```
SELECT
    M.Title, COUNT(N.NominationID) AS TotalNomination
FROM
    datacoach.movies M
    JOIN
        datacoach.nominations N ON M.MovieID = N.MovieID
GROUP BY M.Title
ORDER BY TotalNomination DESC
LIMIT 1;
```

	Title	TotalNomination
▶	The Shawshank Redemption	3

9. Retrieve the names of the movies and their respective directors who won awards.

```
SELECT
    M.Title, N.NomineeName, A.AwardName, A.Category
FROM
    datacoach.movies M
    JOIN
    datacoach.nominations N ON M.MovieID = N.MovieID
    JOIN
    datacoach.winners W ON N.NominationID = W.NominationID
    JOIN
    datacoach.awards a ON W.AwardID = A.AwardID
WHERE N.Role='Director';
```

	Title	NomineeName	AwardName	Category
▶	Pulp Fiction	Quentin Tarantino	Golden Globe Awards	Best Director

10. Identify the director who has won the most awards.

```
SELECT
    N.NomineeName AS DirectorName,
    COUNT(W.WinnerID) AS AwardsWon
FROM datacoach.Winners W
JOIN datacoach.Nominations N ON W.NominationID = N.NominationID
JOIN datacoach.Awards A ON W.AwardID = A.AwardID
WHERE N.Role = 'Director'
GROUP BY N.NomineeName
ORDER BY AwardsWon DESC LIMIT 1;
```

	DirectorName	AwardsWon
▶	Quentin Tarantino	1

1. List the movies along with the total number of nominations they received, sorted in descending order of nominations count.

```
SELECT
    M.Title AS MovieTitle,
    COUNT(N.NominationID) AS TotalNominations
FROM
    datacoach.Movies M
JOIN
    datacoach.Nominations N ON M.MovieID = N.MovieID
GROUP BY
    M.Title
ORDER BY
    TotalNominations DESC;
```

	MovieTitle	TotalNominations
▶	The Shawshank Redemption	3
	The Godfather	3
	The Dark Knight	3
	Pulp Fiction	3
	Forrest Gump	3
	Inception	3

2. Retrieve the top 3 movies with the highest average IMDb rating.

```
SELECT
    Title,
    IMDbRating
FROM
    datacoach.Movies
ORDER BY
    IMDbRating DESC
LIMIT 3;
```

	Title	IMDbRating
▶	The Shawshank Redemption	9.3
	The Godfather	9.2
	The Dark Knight	9.0



3. Find the percentage of nominations each movie received compared to the total number of nominations across all movies.

```
SELECT m.Title,  
       COUNT(n.NominationID) AS NominationCount,  
       ROUND(COUNT(n.NominationID) / total_nominations.Total * 100, 2) AS Percentage  
FROM   datacoach.Movies m  
JOIN   datacoach.Nominations n ON m.MovieID = n.MovieID  
JOIN   (SELECT COUNT(*) AS Total FROM datacoach.Nominations) total_nominations  
GROUP BY m.Title, total_nominations.Total  
ORDER BY Percentage DESC;
```

	Title	NominationCount	Percentage
▶	The Shawshank Redemption	3	16.67
	The Godfather	3	16.67
	The Dark Knight	3	16.67
	Pulp Fiction	3	16.67
	Forrest Gump	3	16.67
	Inception	3	16.67

4. List the movies along with the count of awards they won, but only include movies that won more than one award.

```
SELECT
    m.Title,
    COUNT(w.WinnerID) AS AwardCount
FROM
    datacoach.Movies m
JOIN    datacoach.Nominations n ON m.MovieID = n.MovieID
LEFT JOIN datacoach.Winners w ON n.NominationID = w.NominationID
GROUP BY m.Title
HAVING COUNT(w.WinnerID) > 1;
```

	Title	AwardCount

5. For each award category, find the movie with the highest IMDb rating that was nominated for that category.

```
SELECT a.Category, m.Title AS Movie, m.IMDbRating AS Rating
FROM datacoach.Awards a
JOIN datacoach.Nominations n ON a.AwardID = n.AwardID
JOIN datacoach.Movies m ON n.MovieID = m.MovieID
JOIN (SELECT a.Category, MAX(m.IMDbRating) AS MaxRating
      FROM datacoach.Awards a
      JOIN datacoach.Nominations n ON a.AwardID = n.AwardID
      JOIN datacoach.Movies m ON n.MovieID = m.MovieID
      GROUP BY a.Category) max_rating_per_category
ON a.Category = max_rating_per_category.Category
AND m.IMDbRating = max_rating_per_category.MaxRating;
```

	Category	Movie	Rating
▶	Best Actor	The Shawshank Redemption	9.3
	Best Director	The Shawshank Redemption	9.3
	Best Picture	The Shawshank Redemption	9.3

# Thank You.

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GitHub : [github.com/binoy-patra/SQL-Case-Study](https://github.com/binoy-patra/SQL-Case-Study)

For this challenges: <https://mattsteel87.wixsite.com/datacoach/blank-page>