Amazon Prime SQL project Report

1.What are the top 5 most frequent genres on Amazon Prime?

```
SELECT
 genres, COUNT(*) AS total_count
FROM
 amazon_data
GROUP BY genres
ORDER BY total_count DESC
LIMIT 5;
```

genres	total_count
drama	84158
comedy	47273
thriller	40797
action	37025
romance	32989

2.What percentage of total content does each genre represent?

```
SELECT
   genres,
   COUNT(*) AS genres_count,
   ROUND(COUNT(*) * 100.0 / (SELECT COUNT(*) FROM amazon_data), 2) AS
percentage_of_total
FROM
   amazon_data
GROUP BY
   genres
ORDER BY
   percentage_of_total DESC;
```

Result Grid | Filter Rows:

genres	genres_count	percentage_of_total
drama	84158	21.47
comedy	47273	12.06
thriller	40797	10.41
action	37025	9.45
romance	32989	8.42

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3.How many titles are available per content type (e.g., Movie vs TV Show)?

```
SELECT
   type, COUNT(*) AS total_counts
FROM
   amazon_data
GROUP BY type;
```

Result Grid | Filter

type	total_counts
SHOW	24989
MOVIE	366939

4. Which genre has the highest average IMDb rating?

```
SELECT
   genres, AVG(imdb_score) AS highest_avg_rating
FROM
   amazon_data
GROUP BY genres
ORDER BY highest_avg_rating
LIMIT 1;
```

Result Grid | Filter Rows:

genres	highest_avg_rating
horror	4.997557881382789

5.Which genres are most commonly produced per year?

```
SELECT
   release_year, genres, COUNT(*) AS most_common_genre
FROM
   amazon_data
GROUP BY genres , release_year;
```

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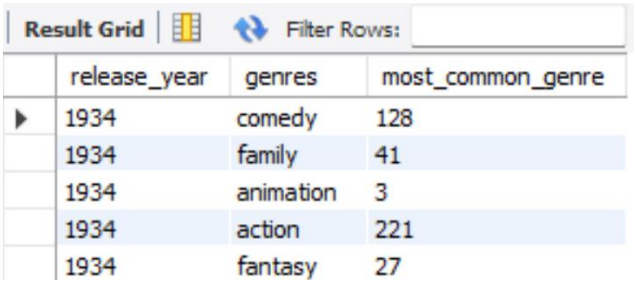
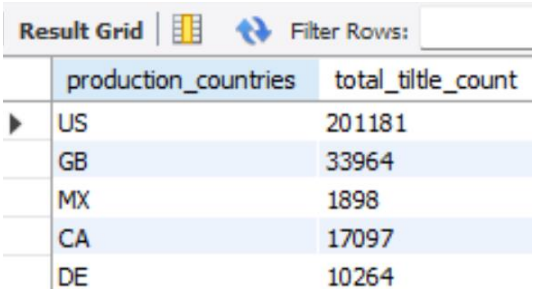


Result Grid | Filter Rows:

release_year	genres	most_common_genre
1934	comedy	128
1934	family	41
1934	animation	3
1934	action	221
1934	fantasy	27

6.How many titles are available per country or region?

```
SELECT
   production_countries, COUNT(title) AS total_tiltle_count
FROM
   amazon_data
GROUP BY production_countries;
```

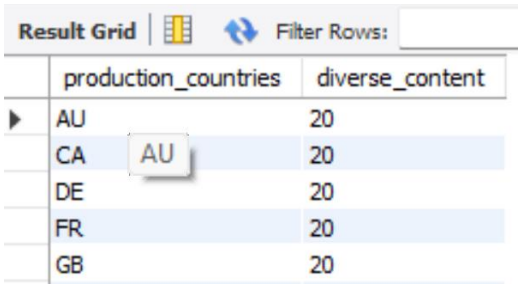


Result Grid | Filter Rows:

production_countries	total_tiltle_count
US	201181
GB	33964
MX	1898
CA	17097
DE	10264

7. Which region has the most diverse content genres?

```
SELECT
   production_countries,
   COUNT(DISTINCT genres) AS diverse_content
FROM
   amazon_data
GROUP BY production_countries
HAVING diverse_content = 20
ORDER BY diverse_content DESC
;
```



Result Grid | Filter Rows:

production_countries	diverse_content
AU	20
CA	20
DE	20
FR	20
GB	20

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8. How many exclusive titles are available only in one region?

```
SELECT  COUNT(*)
FROM
   (SELECT
      title
   FROM
      amazon_data
   GROUP BY title
   HAVING COUNT(DISTINCT production_countries) = 1) AS exclusive_titles;
```

	COUNT(*)
▶	8800

9. Which genres are most popular per region?

```
WITH Rank AS (
   SELECT
      production_countries,
      genres,
      COUNT(genres) AS genre_count,
      RANK() OVER (
         PARTITION BY production_countries
         ORDER BY COUNT(genres) DESC
      ) AS rn
   FROM amazon_data
   GROUP BY production_countries, genres
)
SELECT
   production_countries,
   genres,
   genre_count
FROM Rank
WHERE rn = 1
ORDER BY genre_count DESC;
```

Result Grid | Filter Rows: | Exp

	production_countries	genres	genre_count
▶	US	drama	41502
	GB	drama	8312
	IN	drama	8110
	FR	IN opean	3797
	CA	drama	3582

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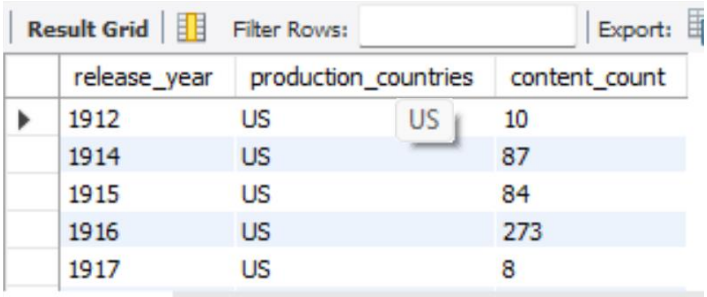
10. Compare the top 3 regions by content count over the years.

```
WITH top_regions AS (
   SELECT production_countries
   FROM amazon_data
   GROUP BY production_countries
   ORDER BY COUNT(*) DESC
   LIMIT 3
)
SELECT
   release_year,
   production_countries,
   COUNT(*) AS content_count
FROM amazon_data
WHERE production_countries IN (
   SELECT production_countries FROM top_regions
)
GROUP BY release_year, production_countries
ORDER BY release_year, production_countries;
```



Result Grid | Filter Rows: | Export:

release_year	production_countries	content_count
1912	US	10
1914	US	87
1915	US	84
1916	US	273
1917	US	8

11. How has the number of new titles changed each year?

```
SELECT
   release_year,
   COUNT(*) AS total_new_titles
FROM amazon_data
GROUP BY release_year
ORDER BY release_year;
```

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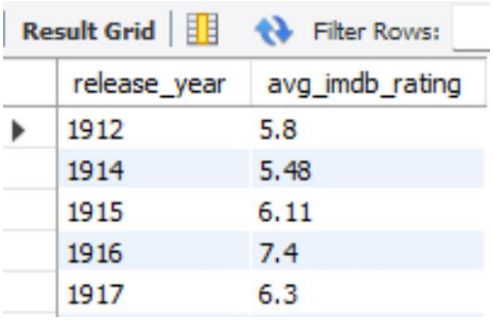
release_year	total_new_titles
1912	10
1914	87
1915	84
1916	273
1917	8

12. What is the trend of average IMDb ratings over the years?

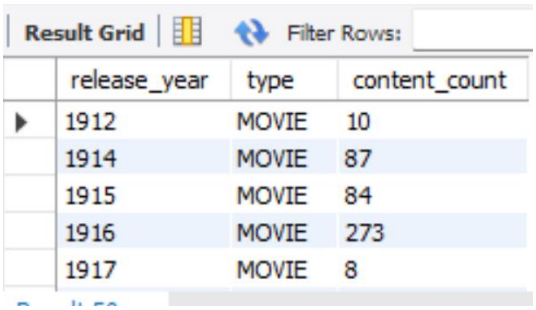
```
SELECT
   release_year,
   ROUND(AVG(imdb_score), 2) AS avg_imdb_rating
FROM amazon_data
WHERE imdb_score IS NOT NULL
GROUP BY release_year
ORDER BY release_year;
```



release_year	avg_imdb_rating
1912	5.8
1914	5.48
1915	6.11
1916	7.4
1917	6.3

13. Are more shows or movies being added recently?

```
SELECT
   release_year,
   type,
   COUNT(*) AS content_count
FROM amazon_data
WHERE release_year IS NOT NULL AND type IS NOT NULL
GROUP BY release_year, type
ORDER BY release_year, type;
```



release_year	type	content_count
1912	MOVIE	10
1914	MOVIE	87
1915	MOVIE	84
1916	MOVIE	273
1917	MOVIE	8

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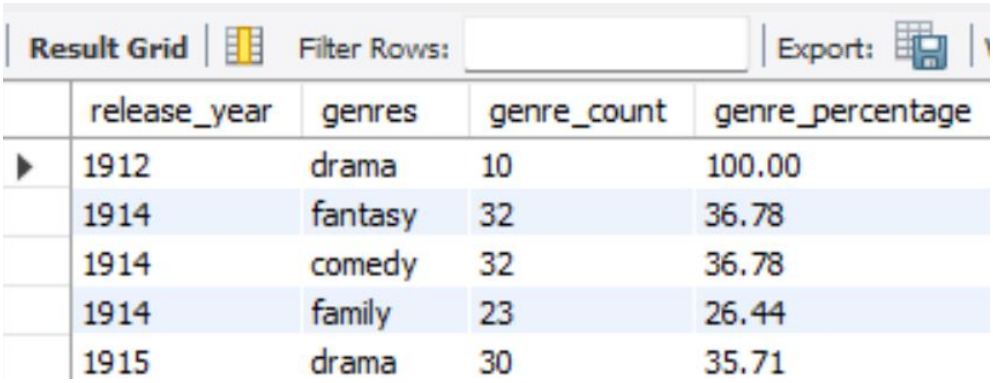
14. How have genre proportions changed over time?

```
WITH genre_counts AS (
    SELECT
        release_year,
        genres,
        COUNT(*) AS genre_count
    FROM amazon_data
    WHERE release_year IS NOT NULL AND genres IS NOT NULL
    GROUP BY release_year, genres
),
total_per_year AS (
    SELECT
        release_year,
        COUNT(*) AS total_titles
    FROM amazon_data
    WHERE release_year IS NOT NULL AND genres IS NOT NULL
    GROUP BY release_year
)
SELECT
    g.release_year,
    g.genres,
    g.genre_count,
    ROUND((g.genre_count * 100.0) / t.total_titles, 2) AS genre_percentage
FROM genre_counts g
JOIN total_per_year t
ON g.release_year = t.release_year
ORDER BY g.release_year, genre_percentage DESC;
```


Result Grid | Filter Rows: | Export:

release_year	genres	genre_count	genre_percentage
1912	drama	10	100.00
1914	fantasy	32	36.78
1914	comedy	32	36.78
1914	family	23	26.44
1915	drama	30	35.71

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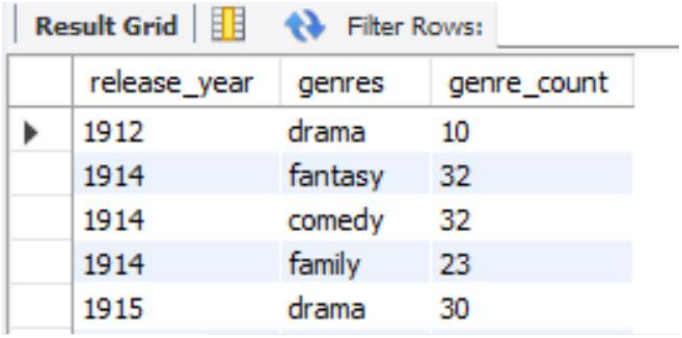
15. What's the yearly count of content per genre?

```
SELECT
   release_year,
   genres,
   COUNT(*) AS genre_count
FROM amazon_data
WHERE release_year IS NOT NULL AND genres IS NOT NULL
GROUP BY release_year, genres
ORDER BY release_year, genre_count DESC;
```



Result Grid | Filter Rows:

release_year	genres	genre_count
1912	drama	10
1914	fantasy	32
1914	comedy	32
1914	family	23
1915	drama	30