

SQL results

Qn Screenshot

1 Find the titles of all movies directed by Steven Spielberg.

```
1 SELECT title
2 FROM Movie
3 WHERE director = 'Steven Spielberg'
```

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title
E.T.
Raiders of the Lost Ark

Qn Screenshot

- 2 Find all years that have a movie that received a rating of 4 or 5, and sort them in increasing order.

```
1 SELECT DISTINCT year
2 FROM Movie m
3 JOIN Rating r ON m.mID = r.mID
4 WHERE stars IN (4,5)
5 ORDER BY year
6
```

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year
1937
1939
1981
2009

Qn Screenshot

3 Find the titles of all movies that have no ratings

```
1 SELECT title
2 FROM Movie m
3 WHERE m.mID NOT IN (SELECT r.mID FROM Rating r)
4
```

Run SQL ▶

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title
Star Wars
Titanic

Qn Screenshot

- 4 For each movie that has at least one rating, find the highest number of stars that movie received. Return the movie title and number of stars. Sort by movie title.

```
1 SELECT m.title, MAX(r.stars) as highest_rating
2 FROM Movie m
3 JOIN Rating r ON m.mID = r.mID
4 GROUP BY m.mID
5 ORDER BY m.title
6
7
```

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title	highest_rating
Avatar	5
E.T.	3
Gone with the Wind	4
Raiders of the Lost Ark	4
Snow White	5
The Sound of Music	3

Qn Screenshot

- 5 For each movie that has at least one rating, find the movie title and total number of stars, the highest star and the person who gave highest star.

```
1 SELECT t1.title, t1.total_stars, t1.highest_star, re.name as reviewer_name
2 FROM(
3     SELECT m.mID, title, SUM(r1.stars) as total_stars, MAX(r1.stars) as highest_star
4     FROM Movie m
5     JOIN Rating r1 ON m.mID = r1.mID
6     GROUP BY title, m.mID
7 ) t1
8 JOIN Rating r2 ON t1.mID = r2.mID AND t1.highest_star = r2.stars
9 JOIN Reviewer re ON r2.rID = re.rID
10 ORDER BY title
11
12
13
```

Run SQL ▶

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title	total_stars	highest_star	reviewer_name
Avatar	8	5	James Cameron
E.T.	5	3	Ashley White
Gone with the Wind	9	4	Sarah Martinez
Raiders of the Lost Ark	10	4	Chris Jackson
Raiders of the Lost Ark	10	4	Brittany Harris
Snow White	9	5	Elizabeth Thomas
The Sound of Music	5	3	Chris Jackson

Qn Screenshot

- 6 For all cases where the same reviewer rated the same movie twice and gave it a higher rating the second time, return the reviewer's name and the title of the movie.

```
1 SELECT title, name as review_name
2 FROM Movie m
3 JOIN Rating r1 ON m.mID = r1.mID
4 JOIN Rating r2 ON r1.rID = r2.rID
5 JOIN Reviewer re ON r1.rID = re.rID
6 WHERE r1.mID = r2.mID AND r1.ratingDate < r2.ratingDate AND r1.stars < r2.stars
7
8
9
10
```

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title	review_name
Gone with the Wind	Sarah Martinez

Qn Screenshot

- 7 For each movie, return the title and the 'rating spread', that is, the difference between highest and lowest ratings given to that movie. Sort by rating spread from highest to lowest, then by movie title.

```
1 SELECT title, (MAX(stars)-MIN(stars)) AS rating_spread
2 FROM Movie m
3 JOIN Rating r ON m.mID = r.mID
4 GROUP BY m.mID
5 ORDER BY rating_spread DESC, title
6
```

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title	rating_spread
Avatar	2
Gone with the Wind	2
Raiders of the Lost Ark	2
E.T.	1
Snow White	1
The Sound of Music	1

Qn Screenshot

8 Find the names of reviewers for every director (one row per director with all reviewers).

```
1 SELECT director, group_concat(distinct name) as reviewers
2 FROM Movie m
3 JOIN Rating r ON m.mID = r.mID
4 JOIN Reviewer re ON r.rID = re.rID
5 WHERE director IS NOT NULL
6 GROUP BY director
7 ORDER BY director
8
9
```

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director	reviewers
James Cameron	James Cameron,Elizabeth Thomas
Robert Wise	Brittany Harris,Chris Jackson
Steven Spielberg	Chris Jackson,Brittany Harris,Ashley White
Victor Fleming	Mike Anderson,Sarah Martinez