Schema:

Movie (mID, title, year, director)
English: There is a movie with ID number mID, a title, a release year, and a director.

Reviewer (rID, name)
English: The reviewer with ID number rID has a certain name.

Rating (rID, mID, stars, ratingDate)
English: The reviewer rID gave the movie mID a number of stars rating (1-5) on a certain ratingDate.

Tasks:

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

title
E.T.
Raiders of the Lost Ark

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

year
1939
1937
1981
2009

3. Find the titles of all movies that have no ratings.

title
Star Wars
Titanic

4. Some reviewers didn't provide a date with their rating. Find the names of all reviewers who have ratings with a NULL value for the date.

name
Daniel Lewis
Chris Jackson

5. Write a query to return the ratings data in a more readable format: reviewer name, movie title, stars, and ratingDate. Also, sort the data, first by reviewer name, then by movie title, and lastly by number of stars.

name ▲ 1	title	stars	ratingDate
Ashley White	E.T.	3	2011-01-02
Brittany Harris	Raiders of the Lost Ark	2	2011-01-30
Brittany Harris	Raiders of the Lost Ark	4	2011-01-12
Brittany Harris	The Sound of Music	2	2011-01-20
Chris Jackson	E.T.	2	2011-01-22
Chris Jackson	Raiders of the Lost Ark	4	*NULL*
Chris Jackson	The Sound of Music	3	2011-01-27
Daniel Lewis	Snow White	4	*NULL*
Elizabeth Thomas	Avatar	3	2011-01-15
Elizabeth Thomas	Snow White	5	2011-01-19
James Cameron	Avatar	5	2011-01-20
Mike Anderson	Gone with the Wind	3	2011-01-09
Sarah Martinez	Gone with the Wind	2	2011-01-22
Sarah Martinez	Gone with the Wind	4	2011-01-27

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.

name	title
Sarah Martinez	Gone with the Wind

7. 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.

title ▲ 1	MAX Stars
Avatar	5
E.T.	3
Gone with the Wind	4
Raiders of the Lost Ark	4
Snow White	5
The Sound of Music	3

8. 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.

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

9. Find the difference between the average rating of movies released before 1980 and the average rating of movies released after 1980. (Make sure to calculate the average rating for each movie, then the average of those averages for movies before 1980 and movies after. Don't just calculate the overall average rating before and after 1980.)

Difference
0.05556666

10. Find the names of all reviewers who have contributed three or more ratings.

name
Brittany Harris
Chris Jackson