**Lab Assignment 4**

Use the movieRating database.

The schema is given below:   
  
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*.

Write the query in SQL to:

1. For all movies that have not been reviewed, return the movies id and titles. (use left join)
2. Display the name of Reviewer who has not reviewed any movie. (use right join)
3. List the names of Directors who have directed more than one movie.

|  |
| --- |
| Steven Spielberg  James Cameron |

1. List the title and the number of times a movie was reviewed.

|  |  |
| --- | --- |
| Gone with the Wind | 3 |
| The Sound of Music | 2 |
| E.T. | 2 |
| Snow White | 2 |
| Avatar | 2 |
| Raiders of the Lost Ark | 3 |

1. Find the rating and the total number of movies that recieved a rating of 4 and the number of movies with a rating of 5

|  |  |
| --- | --- |
| 4 | 4 |
| 5 | 2 |

1. 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.

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| title | 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 |

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1. 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.

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| title | 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 |

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8. Find the names of movies with the highest rating

9. Find the names of movies with a rating higher than highest rating given by 205.

10. List the id and title of movie which was reviewed the maximum number of times.

|  |  |
| --- | --- |
| 101 | Gone with the Wind |
| 108 | Raiders of the Lost Ark |