**Q1. Find top 10 average rated "Action" movies with descending order of rating.**

( This is in-memory map side join. Put the smallest file in the memory. If any movie has multiple genres and you find one of its genre is Action then consider the movie genre is Action)

This is similar to the following SQL:

Select MovieID, MovieName, MovieGenre, AVG(rating)

From

ratings, movies

Where

movies.MovieID = ratings.MovieID and

movies. MovieGenre = "Action"

Group by (movies.MovieID, movies.MovieName, movies.MovieGenre)

Order by desc

Limit 10

You should give the output as following:

Movie ID Movie Name Genre Avg rating

Sample output:

2905 Sanjuro (1962) Action|Adventure 4.609

2019 Seven Samurai (The Magnificent Seven) (Shichinin no samurai) (1954) Action|Drama 4.561

858 Godfather, The (1972) Action|Crime|Drama 4.525

1198 Raiders of the Lost Ark (1981) Action|Adventure 4.478

260 Star Wars: Episode IV - A New Hope (1977) Action|Adventure|Fantasy |Sci-Fi 4.454

1221 Godfather: Part II, The (1974) Action|Crime|Drama 4.358

2028 Saving Private Ryan (1998) Action|Drama|War 4.337

2571 Matrix, The (1999) Action|Sci-Fi|Thriller 4.316

1197 Princess Bride, The (1987) Action|Adventure|Comedy|Romance 4.304

1233 Boat, The (Das Boot) (1981) Action|Drama|War 4.303

**Q2. List all the movies with its genre where the movie genre is Action or Drama and the average movie rating is in between 4.4 - 4.7 and only the male users rate the movie.**

( This is reduce side join).

This is similar to the following SQL:

Select MovieID, MovieName, MovieGenre, AVG(rating)

From

users, ratings, movies

Where

users.UserID = ratings.UserID and

movies.MovieID = ratings.MovieID and

users.Gender = "M" and

(movies. MovieGenre = "Action" or movies. MovieGenre = "Drama")

Group by (movies.MovieID, movies.MovieName, movies.MovieGenre)

having AVG(rating) >= 4.4 and

AVG(rating) <= 4.7

(NB. You need not worry about sorting this time).

You should give the output as following:

Movie ID Movie Name Genre Avg rating

Sample output

1178 Paths of Glory (1957) Drama|War 4.47

1198 Raiders of the Lost Ark (1981) Action|Adventure 4.48

1207 To Kill a Mockingbird (1962) Drama 4.43

1795 Callejï¿½n de los milagros, El (1995) Drama 4.5

2019 Seven Samurai (The Magnificent Seven) (Shichinin no samurai) (1954) Action|Drama 4.56

2309 Inheritors, The (Die Siebtelbauern) (1998) Drama 4.5

2480 Dry Cleaning (Nettoyage ï¿½ sec) (1997) Drama 4.5

2503 Apple, The (Sib) (1998) Drama 4.67

260 Star Wars: Episode IV - A New Hope (1977) Action|Adventure|Fantasy|Sci-Fi 4.45

2905 Sanjuro (1962) Action|Adventure 4.61

3030 Yojimbo (1961) Comedy|Drama|Western 4.4

318 Shawshank Redemption, The (1994) Drama 4.55

3517 Bells, The (1926) Crime|Drama 4.5

3888 Skipped Parts (2000) Drama|Romance 4.5

439 Dangerous Game (1993) Drama 4.5

527 Schindler's List (1993) Drama|War 4.51

557 Mamma Roma (1962) Drama 4.5

578 Hour of the Pig, The (1993) Drama|Mystery 4.5

668 Pather Panchali (1955) Drama 4.4

670 World of Apu, The (Apur Sansar) (1959) Drama 4.41

858 Godfather, The (1972) Action|Crime|Drama 4.52

912 Casablanca (1942) Drama|Romance|War 4.41