Questions

1.1 Question a

Find the number of Animation movies that were released in 1995. No need to remove duplicates. (Output headers: None)

1.2 Question b

Find distinct user ids under age 15 who have watched at least 2 different horror movies (i.e., genre is Horror), ordered by user id (ascending). (Output headers: user id)_

2.1 Question a

Add a new column "summary" in the movies table. The values of the column should be populated as below.

After modifying the schema, please output the count of each value as an array and sort by count(ascending). Hint: Use \$group in aggregation.

2.2 Question b

Find the top-20 movies in Adventure which have the highest average rating that are rated by at least 100 users. (Header: average_rating, movie_title)

NOTE: Add .toArray() to the end of your query and submit your codes in a file named b.js.

2.3 Question c

Find the number of reviews varied in each year in each of the 3 summary categories: "great", "ok","bad". Sort your result by year(ascending) and summary(descending). Only display the first 100 documents. Use release_date to get the year of a given review. (Hints: \$addFields outputs documents that contain all existing fields from the input documents and newly added fields. It does not update the schema of your collection. \$substr extract a substrings based on a the start index and length.)

NOTE: Add .toArray() to the end of your query