Data Querying and Analysis in MongoDB

Loading the dataset:

Text

Description automatically generated

1. Find the title and the year of each movie directed by Nicholas Meyer.

Query:

db.movieDetails.find({"director" : "Nicholas Meyer"},{title:1,year:1,\_id:0}).pretty()

Result:



1. How many movies were released in 2010 and rated as PG-13?

Query:

db.movieDetails.count({"year":2010,"rated":"PG-13"})

Result:



1. Find the title and writer of each movie that has 3 award wins and 3 award nominations.

Query:

db.movieDetails.find({$and:[{"awards.wins":3},{"awards.nominations":3}]},{title:1,writers:1,\_id:0}).pretty()

Result:

Graphical user interface, text

Description automatically generated

1. How many movies have one award wins or three award nominations?

Query:

db.movieDetails.count({$or:[{"awards.wins":1},{"awards.nominations":3}]})

Result:



1. How many movies do not contain the metacritic field.

Query:

db.movieDetails.count({metacritic:{$exists: false}})

Result:



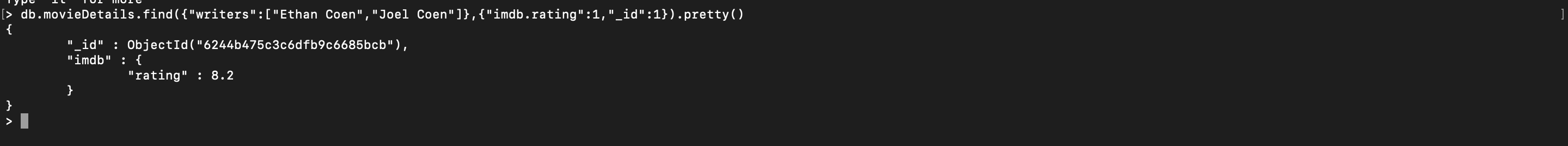
1. Find the imdb rating for the movie that lists just two writers: "Ethan Coen" and "Joel Coen", **in that order**.

Query:



db.movieDetails.find({"writers":["Ethan Coen","Joel Coen"]},{"imdb.rating":1}).pretty()

Result:



1. How many movies list "Western" among its genres?

Query:

db.movieDetails.count({"genres":"Western"})

Result:



1. Find the title of each movie that lists "Harrison Ford" as its leading actor?

Query:

db.movieDetails.find({"actors.0":"Harrison Ford"},{"title":1,"\_id":0}).pretty()

Result:



1. How many movies have an imdb rating greater than 8 and the plot field is not null?

Query:

db.movieDetails.count({$and:[{"imdb.rating":{$gt:8}},{"plot":{$ne:null}}]})

Result:



1. Find the movie title and the first element of the countries field that has five countries listed.

Query:

db.movieDetails.find({"countries":{$size:5}},{"title":1,"\_id":0,"countries":{$slice:1}})

Result:

