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10/15/2019

HW3 Individual Version D

Problem 1 Update:

1. Is an index change needed?

   No, I don't believe an index change is needed. I don't believe a change is needed because most queries and connections the databases have with each other has a lot to do with the movie name and genre.

2. Justify new table and new search key for indexing.

   New table I would use is Acted. New index I would use is pid. Reason being is because Acted table provides the movie and pid, standing for performer id. I still have movie as an index because it can be unique and can identify the genre, director, performers, etc. Pid can identify performer's name, age, and years of experience. That's a lot of data that pid can provide. The new table and index would be good search indexing for that reason.

3. Primary vs secondary key to be used.

   Primary key would be pid because it can uniquely search for a performer and provide all kinds of information such as what movies they have acted in and who directed it. Secondary key would be movie as movies can also provide lots of data but in the Acted table, it is more geared towards the performer.

4. SQL statements to create the new index.

   If I were to change the index, I would change it to did, standing for director id.

   SQL statement: CREATE index did_index ON Movie(did)

Problem 1 Version D:

Delete all movies released in the 70's and 80's (1970 <= release_year <= 1989)

No, this new SQL query will not change our answer for problem 1 of homework 3. It will not change our answer because we have previously deleted all movies released in the 70's and 80's in homework 2.

SQL Query: `delete from Movie where 1970 <= release_year and release_year <= 1989`