ShardA

Movie (all have “required” constraint):

movieId: number

title: String

genres: String[]

Tags (user created tags per movie):

userID: number

movieID: number

tag: String

Timestamp: date

ShardB

Ratings:

userID: number

movieID: number

Rating: number

Timestamp: from number convert to date

ShardC

Genome (genes of movie of how related each tag is to movie):

Mid: number

Tag: String

Relevance: number

Use cases:

Finding a movie will display entry in Movie collection

1. Admin insert movie
2. Find movie given name
3. Find movie given date
4. Find movie given genre
5. Find movie given userID
6. Find movie given range of rating aggregate as average
7. Find ratings given movie and timestamp range
8. Admin deletes rating
9. User adds in their own rating on a movie
10. User update own rating on a movie
11. Find movie given tags
12. Find tags given movie
13. Admin deletes tags
14. User adds tags on a movie
15. User update tags on a movie
16. Find tag given userID?
17. Find movie given tag
18. Find movie given tag and relevance range
19. Find tag given genre

TODO:

Convert genres to array format