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Subject: Advanced Database Concepts

Assignment : NoSQL Concept Using MondoDb

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Movie Database

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1. Create a database with the name 'Movie'.

2. A 'Film' is a collection of documents with the following fields:

 a. Film Id

b. Title of the film

c. Year of release

d. Genre / Category (like adventure, action, sci-fi, romantic etc.)

 A film can belong to more than one genre.

e. Actors (First name and Last name)

f. Director (First name and Last name)

g. Release details

 (It consists of places of release, dates of release and rating of the film.)

3. An 'Actor' is a collection of documents with the following fields:

a. Actor Id

b. First name

c. Last Name

d. Address (Street, City, State, Country, Pin-code)

e. Contact Details (Email Id and Phone No)

f. Age of an actor. A film can have more than one actor.

A film can have more than one director.

3. An 'Actor' is a collection of documents with the following fields:

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Queries:

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1. Insert at least 10 documents in the collection Film –

a. Insert at least one document with film belonging to two genres.

b. Insert at least one document with film that is released at more than one place and on two different dates.

c. Insert at least three documents with the films released in the same year.

d. Insert at least two documents with the films directed by one director.

e. Insert at least two documents with films those are acted by a pair 'Alia Bhat' and 'Allu Arjun'.

1. Add a value to the rating of the film whose title starts with 'T'.
2. Add an actor named "Dhanush" in the 'Actor' collection. Also add the details of the film in 'Film' collection in which this actor has acted in.
3. Delete the film "Endgame"
4. Delete an actor named "Salman Khan "
5. Delete all actors from an 'Actor' collection who have age greater than 45
6. Update the actor's address where Actor Id is "13".
7. Update the genre of the film directed by " ".

(MongoDB Aggregate framework based queries)

1. Find the titles of all the films starting with the letter 'R' released during the year 2009 and 2011.
2. Find the list of films acted by an actor " ".

3. Find all the films released in 90s

4. Find all films belonging to "Adventure" and "Thriller" genre.

5. Find all the films having 'A' rating.

6. Arrange the film names in ascending order and release year should be in descending order.

7. Sort the actors in ascending order according to their age.

8. Find movies that are comedies or dramas and are released after 2005.

9. Show the latest 2 films acted by an actor " ".

10. List the titles of films acted by actors " " and " ".

11.Retrieve films with an actor living in Spain.

12. Retrieve films with actor details.