

Extracted schema : mflix-sample

This document presents the collections and their property that are used in lab 1. They are extracted from the inferred schema of the `mflix-sample` using the Couchbase `INFER` command. To simplify comprehension we represent them in the TypeScript format.

- Attributes that can be missing are represented by `?`
- Arrays are represented by appending `[]` to the element's type

For example :

```
{  
  // an attribute that can be missing (but not null)  
  optionalAttr?: number  
  // an attribute that can be null or a boolean (but not missing)  
  nullableAttr: null | boolean  
  // an array with String elements e.g. [], ["first", "second", ...], ...  
  arrayOfStrings: string[];  
  // an array with object of a specific structure  
  // e.g. [], [{objAttr: 1}, {objAttr: 2.2}, ...], ...  
  arrayOfObjects: {  
    objAttr: number;  
  }[]  
}
```

Collection comments

```
let comments_collection: [ // `mflix-sample`.`_default`.`comments`  
  string, // key, e.g. "comment:5a9427648b0beeb69579cc", "5a9427648b0beeb69579d5", ..  
  {  
    _id: string; // key, e.g. "5a9427648b0beeb69579cc", "5a9427648b0beeb69579d5", ..  
    date: number; // e.g. 420323955000, 539915376000, ...  
    email: string; // e.g. "aidan_gillen@gameofthron.es", "greg_powell@fakegmail.com", ..  
    movie_id: string; // e.g. "573a1390f29313caabcd4137", "573a1390f29313caabcd4218", ..  
    name: string; // e.g. "Andrea Le", "Petyr Baelish", ...  
    text: string; // e.g. "Quasi dicta culpa asperiores q...", "Tenetur dolorum molestia  
    type: string; // only "comment"  
  }  
]
```

Collection users

```
let users_collection: [ // `mflix-sample`.`_default`.`users`  
  string, // key, e.g. "user:59b99db4cfa9a34dcd7885b6", "user:59b99db6cfa9a34dcd7885ba"  
  {  
    _id: string; // e.g. "59b99db4cfa9a34dcd7885b6", "59b99db6cfa9a34dcd7885ba", ...  
    email: string; // e.g. "sean_bean@gameofthron.es", "lena_headey@gameofthron.es", ...  
    name: string; // e.g. "Catelyn Stark", "Cersei Lannister", "Ned Stark", ...  
    password: string; // e.g. "$2b$12$UREFwsRUoyFOCRqGNKOLz00HM/jLhgUCNNIJ9RJAqMUQ74crlJ.  
    type: string; // only "user"  
  }  
]
```

Collection theaters

```
let theaters_collection: [ // `mflix-sample`.`_default`.`theaters`  
  string, // key, e.g. "theater:59a47286cfa9a3a73e51e72f", "theater:59a47286cfa9a3a73e51  
  {  
    _id: string; // e.g. "59a47286cfa9a3a73e51e73f", "59a47286cfa9a3a73e51e73f", ...  
    location: {  
      city: string; // e.g. "Birmingham", "Bismarck", "Glendora", ...  
      state: string; // e.g. "AL", "CA", "CO", "TX", ...  
      street1: string; // e.g. "1207 W Century Ave", "1307 E Gladstone St", "79220 Hwy 1  
      street2?: null | string; // e.g. null, "J107", "Ste 120", "Ste F1", ...  
      zipcode: string; // e.g. "35235", "75092", "91740", "92253"  
    }  
    geo: {  
      coordinates: number[]; // e.g. [-117.83625, 34.11612], [-86.642662, 33.605438], ...  
      type: string; // only "Point"  
    }  
    schedule?: {  
      day: number; // e.g. 1, 2, 3, 4, 5, 6, 7  
      hourBegin: string; // e.g. "14:45:00", "18:30:00", "21:00:00", ...  
      movieId: string; // e.g. "573a13f2f29313caabddd59b", "573a13f3f29313caabddf32e", ...  
      room: number; // e.g. 0, 1, 2, 3, ...  
    }[]  
    theaterId: number; // e.g. 1000, 1002, 1003, 1008, 1010  
    type: string; // only "theater"  
  }  
]
```

Collection movies

```
let movies_collection: [ // `mflix-sample`.`_default`.`movies`  
  string, // key, e.g. "movie:573a1392f29313caabcd99a3", "movie:573a1396f29313caabce41aa"  
  {  
    _id: string; // e.g. "573a1392f29313caabcd99a3", "573a1396f29313caabce41aa", ...  
    awards: {  
      nominations: number; // e.g. 0, 1, 2, 3, 4, ...  
      text: string; // e.g. "Nominated for 1 Golden Globe. ...", "2 wins & 1 nomination."  
      wins: number; // e.g. 0, 1, 2, 11, ...  
    }  
    cast?: string[]; // minItems 1, e.g. ["Aleksandr Demyanenko", "Aleksei Smirnov", "VL  
    countries?: string[]; // minItems 1, e.g. ["Germany"], ["Soviet Union"], ["West Germa  
    directors?: string[]; // minItems 1, e.g. ["Carol Reed"], ["Leni Riefenstahl", "Bèla  
    fullplot?: string[]; // e.g. "A young man, newly graduated...", "Archie Rice, a path  
    genres?: string[]; // e.g. ["Comedy", "Crime", "Drama"], ["Drama", "History", "War"]  
    imdb: {  
      id: number; // e.g. 22694, 59550, 66237, ...  
      rating: number | string; // e.g. 7, 7.3, 8.1, "", ...  
      votes: number | string; // e.g. 727, 1828, 5739, "", ...  
    }  
    languages?: string[]; // minItems 1, e.g. ["English"], ["English", "Bengali"], ["Rus  
    lastUpdated: string; // e.g. "2015-07-12 00:50:43.937000000", "2015-09-02 00:05:07.6  
    metacritic?: number; // e.g. 31, 45, 56, 67, ...  
    num_mflix_comments?: number; // e.g. 1, 2, 3, 5, 383, ...  
    plot?: string; // e.g. "A young college graduate is st...", "Archie Rice, an old-tim  
    poster?: string; // e.g. "https://m.media-amazon.com/ima...", ...  
    rated?: string; // e.g. "NOT RATED", "PG", "R", "TV-MA", "UNRATED", ...  
    released?: number; // e.g. -1125100800000, -311385600000, -286588800000, 25833600000  
    runtime?: number; // e.g. 85, 95, 110, 111, ...  
    title: number | string; // e.g. 42, 300, "Our Man in Havana", "The Entertainer", ...  
    tomatoes?: {  
      boxOffice?: string; // e.g. "$1.0M", "$17.8k", "$46.1M", "$2.7k", ...  
      consensus?: string; // e.g. "A spirited, old...", "Achingly poignant, beautifully  
      critic?: {  
        meter?: number; // e.g. 20, 40, 43, 100, ...  
        numReviews?: number; // e.g. 5, 6, 7, 10, 22, ...  
        rating?: number; // e.g. 4.3, 4.7, 5, 5.8, ...  
      }  
    }  
    dvd?: number; // e.g. 648950400000, 1055203200000, 1133827200000, ...  
    fresh?: number; // e.g. 1, 4, 5, 10, 21, ...  
    lastUpdated: number; // e.g. 1435084728000, 1440357307000, 1437507719000, ...  
    production?: string; // e.g. "MGM", "Nelson Entertainment", "Paramount Pictures", ...  
    rotten?: number; // e.g. 1, 2, 4, 8, 22, ...  
    viewer?: {  
      meter?: number; // e.g. 35, 49, 54, 73, ...
```

```
    numReviews: number; // e.g. 167, 602, 4807, ...
    rating?: number; // e.g. 3, 3.1, 3.2, 4.4, ...
  }
  website?: string; // e.g. "http://www.fallingupmovie.com/", "http://www.discopigs.com"
}
type: string; // only "movie"
writers?: string[]; // e.g. ["Rafael Azcona", "José Luis Garcèa Sènchez"], ...
year: number | string; // e.g. "2011", 1948, 1971, 1988, 1993, ...
}
```

```
]
```