**The Movie Database**

***Introduction:***

The movie database TMDB, which is biggest source of metadata is a community-built movie and

tv show database created to answer many questions related to movie industry.

In our movie database domain, we have taken subset of this huge metadata (around 5000 movies)

which contains information about Movie Names, Lead Actors Names, Genre, Budget of that

Movie, Revenue, Release date, Rating given to that movie, Run Time of the movie etc.

For our project we are considering dataset from www.kaggles.com, the link to dataset that we are

using is <https://www.kaggle.com/tmdb/tmdb-movie-metadata>

***Relational Schema:***

Using the “tmdb-movie-metadata” data source, we are able to generate 8 relational database tables containing different datatypes, attributes, relations and cardinalities. The relational schema is described below.

1. **Movies (movie\_id, title, release\_date, year, run\_time, votes)**

Movies.title has UNIQUE constraint on it

1. **Genre (genre\_id, genre\_name)**
2. **Movie\_Genre (movie\_id, genre\_id)**

movie\_id is a foreign key referring to Movies.movie\_id

genre\_id is a foreign key referring to Genre.genre\_id

1. **Budget\_Revenue (movie\_id, m\_budget, m\_revenue)**

movie\_id is a foreign key referring to Movies.movie\_id

1. **Profit (movie\_id, profit)**

movie\_id is a foreign key referring to Movies.movie\_id

*(Here movie\_id is both primary key and a foreign key; Profit entity has one-to-one relation with Movies entity)*

1. **Gender(gender\_id, gender)**
2. **Actors (actor\_id, actor\_name, gender\_id)**

gender\_id is a foreign key references to Gender.gender\_id

1. **Movie\_Actors (movie\_id, actor\_id)**

movie\_id is a foreign key references to Movies.movie\_id

actor\_id is a foreign key references to Actors.actor\_id