

## Entity-Relationship Dictionary

### ***Entity Dictionary:***

**Entity:** Actor

**Description:** Main characters in a movie.

**Attributes:**

- Character: Varchar (30), name of the character.

**Entity:** Critic

**Description:** A viewer who specializes in grading movies

**Attributes:**

- Employer: Varchar (30), name of the company they work for.

**Entity:** Director

**Description:** Person who directs the film.

**Entity:** Movie

**Description:** Story or event told through a camera and shown in a theater, television; a motion picture.

**Attributes:**

- Awards: Varchar(30), awards received at festivals or by academy
- Release: Varchar(20), date of release.
- Genre: Varchar(20), Multi-valued category of movie composition.
- Profit: Integer, total amount a movie makes after deducting costs associated with making it.
- Rating: Varchar(4), percentage score given out of a 100, where 0 is the worst value.
- Name: Varchar(50), name of the movie at the time of release.
- MovieID: Varchar(10), a unique identification.
- Budget: Varchar(20), production cost.
- Primary Key: MovieID

**Entity:** Staff

**Description:** Names of important people who have worked on the movie.

**Attributes:**

- StaffID: Varchar(5), unique id for people who worked on the movie.
- Salary: Varchar(7), money paid monthly to employee.
- Name: Varchar(30), First and last name of employees that worked on the movie.
- Primary Key: StaffID

**Entity:** Stream

**Description:** The act of viewing the film through a vendor by subscribing.

**Attributes:**

- ~~StreamID: Varchar(5), a unique~~
- ~~Platform: Varchar(10), streaming company name.~~

- ~~Primary Key: StreamID~~

**Entity: Studio**

**Description:** Production company that made the movie.

**Attributes:**

- StudioID: Varchar(5), unique studio identifier
- Origin: Varchar (74), name of the country where the movie is made.
- Licensing: Varchar(5), Unique number giving authorization for distribution and viewing.
- Primary Key: StudioID

**Entity: Theatre**

**Description:** A company that purchases temporary rights to show the movie to general audience.

**Attributes:**

- TheatreID: Varchar(8), unique theatre identification number.
- Ticket Cost: Integer, the monetary amount of purchasing ticket(s).
- Location: Varchar(22), Name of the city where the theatre is.
- Time: Varchar(7), time the movie is playing.
- Primary Key: TheatreID

**Entity: Ticket**

**Description:** ~~paper, card or electronic entry to a theatre.~~

**Attributes:**

- ~~TicketID: Varchar(5), Unique number granted to individuals that purchase the ticket.~~
- ~~Cost: Integer, derived from the TicketID, a monetary amount of purchasing a ticket.~~
- ~~Primary Key: TicketID~~

**Entity: Trailer**

**Description:** A small clip of the movie that previews highlighted events.

**Attributes:**

- TrailerID: Varchar(5), a unique.
- Copyright: Varchar(80), contains date of publication and name/author/owner.
- Length: Varchar(5), duration of the trailer in minutes and seconds.
- Primary Key: TrailerID

**Entity: User**

**Description:** Person who wants to access and watch movies.

**Attributes:**

- Email: Varchar(20), account through a website that is used to register database account.
- Username: Varchar(20), a unique name set by an individual using letters and number to access account.
- Password: Varchar (15), secret word or phrase, without space, that grants access to the account.
- DOB: Varchar(10), date of birth of the user.

- Credit Card: Varchar(10), unique set of numbers that allow user to purchase movies through their bank.

**Entity:** Vendor

**Description:** Companies that purchase licenses to stream or show the movie.

**Attributes:**

- VendorID: Varchar(6), a unique identification that gives purchase permission.
- Contract: Integer, in terms of months a, an agreement for purchasing or streaming a movie.
- Price: Integer, cost of the contract paid to the studio.
- Primary Key: Vendor ID.

**Entity:** Viewer

**Description:** Person watching the movie.

**Attributes:**

- ~~UserID~~ ViewerID: Varchar(5), a unique
- Rating: Varchar(4), percentage score given out of a 100, where 0 is the worst value.
- First Name: Varchar(50), first name with space to include middle name.
- Last Name: Varchar(15), last name
- Primary Key: ~~UserID~~ ViewerID

**Relationship Dictionary:**

**Relationship:** Creates

**Description:** Many staff create one movie.

**Entities:** Movie, Staff

**Cardinality:** M:1

**Relationship:** Distributes

**Description:** Many vendors distribute movies to one Theatre.

**Entity:** Vendor, Theatre

**Cardinality:** N:1

**Relationship:** For

**Description:** Many tickets can be sold for one theatre.

**Entities:** Theatre, Ticket

**Cardinality:** M:1

**Relationship:** Hires

**Description:** Studio hires many staff.

**Entities:** Staff, Studio

**Cardinality:** 1:M

**Relationship:** License  
**Description:** Studio license movies to many vendors.  
**Entities:** Studio, Vendor  
**Cardinality:** M:N

**Relationship:** Makes  
**Description:** Studio makes many trailers.  
**Entities:** Studio, Trailers  
**Cardinality:** 1:M

**Relationship:** Produces  
**Description:** Studio produces many movies.  
**Entities:** Movie, Studio  
**Cardinality:** 1:M

**Relationship:** Screens  
**Description:** Many Vendors can screen many movies.  
**Entities:** Movie, Vendor  
**Cardinality:** M:N

**Relationship:** Sells  
**Description:** Many Vendors can sell many tickets for a movie.  
**Entities:** Ticket, Vendor  
**Cardinality:** M:N

**Relationship:** Subscription  
**Description:** Many Vendors can give subscription to one Stream.  
**Entities:** Stream, Vendor  
**Cardinality:** M:1

**Relationship:** Watching  
**Description:** Many Viewers can watch many movies  
**Entities:** Movie, Viewers  
**Cardinality:** M:N