

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.
- 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: 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

Relationship Dictionary:

Relationship: Creates

Description: Many staff create one movie.

Entities: Movie, Staff

Cardinality: M: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