

CYDEO

Cinema Lab

User Story

Create an application for selling online cinema tickets.

1. The application must contain all cinema hall information.

2. The application must have the ability to have a movie list.

- 2.1 The application must have the ability to add a new movie.

- 2.1.1. While the movie has been created, the application must have the ability to choose many genres for the movie. Also, genres can have many different movies.

- 2.1.2. Movies must have a release date, duration, name, list of genres, summary, state (active, draft, suspended), type (premier, regular).



User Story

2.2. The application must have the ability to add a new cinema.

2.2.1. Cinema must have a name, sponsored name and location_id.

2.2.1.1. The location must have a name, that can't be blank.

2.3. Add a movie in the calendar, in a specific cinema hall, with the correct time.

2.4. The application must have users, regular users and admin users.

2.4.1. The User should have a form to create a user with an email address, password and all necessary information.

2.4.1.1. Email must be validated as email and can't be null.

2.4.1.2. The password must have a minimum of 6 characters and can't be null.

2.5. The User can make an online reservation for the movie they want to watch. They can choose a seat and row number, date when they want to watch the movie.

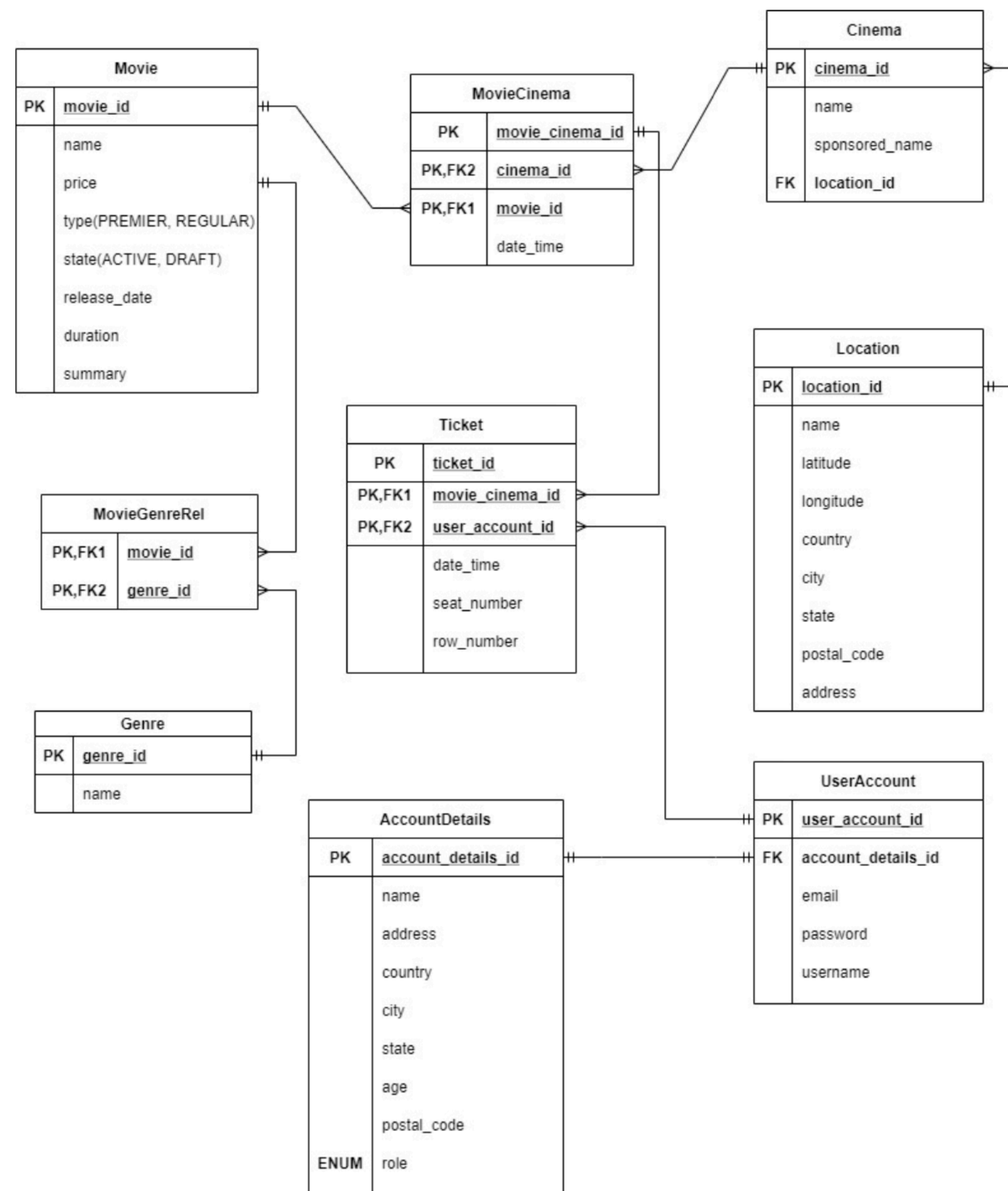


User Story

Design a database schema based on the requirements in the previous pages. Feel free to check how cinema online tickets work, what they provide to make the application useful for the users. Feel free to add as much information or property to the table as you think it is necessary for the application to be completed and useful.

NOTE: You can check the diagram in the next page.





NOTE: For the meanings of the relationships between the tables, you can check the next page.

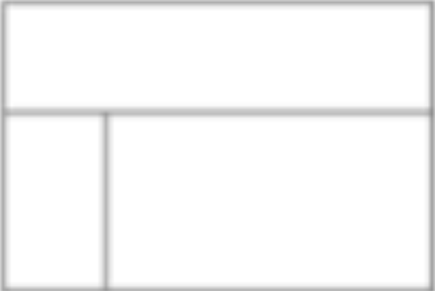
Crow's Foot notation



Entity
(with no attributes)



Entity
(with attributes field)



Entity
(attributes field with columns)



Entity
(attributes field with columns and
variable number of rows)

Relationships
(Cardinality and Modality)



Zero or More



One or More

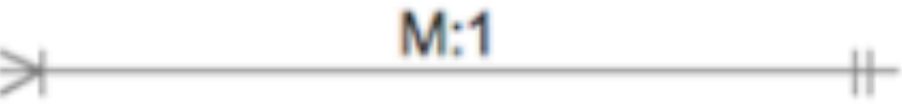


One and only
One

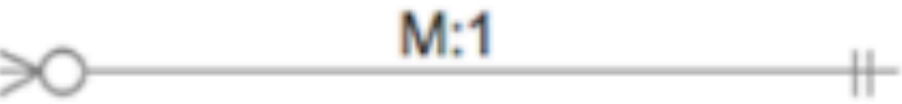


Zero or One

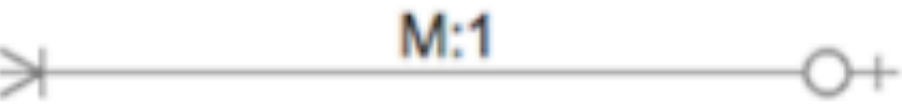
Many - to - One



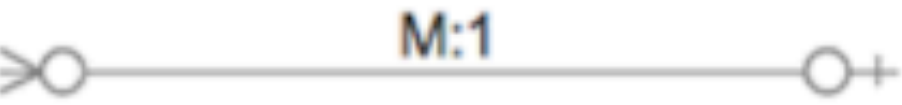
a one through many notation on one side of a relationship
and a one and only one on the other



a zero through many notation on one side of a relationship
and a one and only one on the other



a one through many notation on one side of a relationship
and a zero or one notation on the other



a zero through many notation on one side of a relationship
and a zero or one notation on the other

Many-to-Many



a zero through many on both sides of a relationship



a one through many on both sides of a relationship

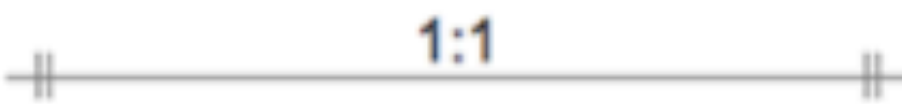


a zero through many on one side and a one through many
on the other

Many-to-Many



a one and only one notation on one side of a relationship
and a zero or one on the other



a one and only one notation on both sides