**Database Model: Cinema Movie-ticket Booking System**

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**Requirements**

Personally (individual work) create a relational database system (model and implementation) regarding specific subject (e-commerce system, system for handling personnel and activities of certain organization, system for ordering and registering goods, books/movies/songs repository, etc.). You can use MySQL database with phpMyAdmin panel or other tools. Task includes:

* Modelling of a system (creation of relational diagrams, ERD diagrams, establishing keys and providing normalization).
* Creating tables and filling them with data (records).
* Being familiar with data types and providing basic SQL queries.
* Providing more advanced SQL queries (queries to multiple tables, aggregated queries and grouping).
* Providing nested queries.

**Relational/ERD diagrams**

**Descriptions**

The ***films*** table contains data about films which will be shown in the cinema. The primary key is id, which is auto incremented like all primary keys in all other tables. The only mandatory data is title.

The ***auditorium*** table identifies all auditoriums in the cinema. All data is mandatory.

The ***screening*** table contains data of all screenings and all fields are mandatory. A screening must have a related movie, auditorium and start time. We can’t have two showings in same auditorium at the same time.

The ***seats*** table contains a list of all seats we have in auditoriums with each seat assigned to strictly one auditorium. All fields are mandatory.

The ***customers*** table lists all customers using the system. All fields are mandatory.

**Used data types**

**Key establishments**

**Normalization**

**Basic queries**

**Advanced queries**

**Nested queries/Subqueries**