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| --- | --- | --- | --- |
| Relation name | Relation Type | Constraints | Description |
| Search | 1:M | Only registered user/admin can search | User/ admin searchs for a particular movie |
| Sort | 1:M | Only registered user/admin can sort | User/admin can sort movies alphabetically |
| View | 1:M | Only registered user/admin can view reviews | User/admin views movies reviews |
| Rate | 1:M | Only registered user can submit a rating | User submits ratings for movies |
| Review | 1:M | Only registered user can submit a review | User submits reviews for movies |
| Add/update | 1:M | Only registered admin can add/update movies | Admin adds/updates new movies to the database |
| remove | 1:M | Only registered admin can remove movies | Admin removes movies from the database |
| order | 1:M | Only registered admin can order a report | Admin orders a report that contains information about the database |
| View | 1:M | Only registered admin can view system logs | Admin view system logs |
| Login | 1:1 | Only registered user/admin can login | User/admin login to be able to use the application |
| Register | 1:1 | Unregistered users can create accounts | Users can register to create an account |

Relations domain.

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| --- | --- | --- | --- | --- |
| **Attribute name** | **Data Type** | **Format** | **Constraints** | **Description** |
| adminID | INT | 32-bit integer | Unique, not null | Value of admin’s ID |
| Admin\_name | VARCHAR | String | Maximum 45 characters | Value of admin’s name |
| password | VARCHAR | String | 3 to 6 characters | Value of admin’s password |
| ID | INT | 32-bit integer | Unique, not null | Value of user’s ID |
| Name | VARCHAR | String | Maximum 45 characters | Value of user’s name |
| password | VARCHAR | String | 3 to 6 characters | Value of user’s password |
| MovieID | INT | 32-bit integer | Not null | Value of movie’s ID |
| UserID | INT | 32-bit integer | Not null | Value of user’s ID |
| Review | VARCHAR | String | Not null | Set of characters forming the review |
| TimeStamp | VARCHAR | String | Not null | Date and time of the log creation |
| Operation | VARCHAR | String | Maximum 25 characters | Description of the performed operation |
| LogMessage | VARCHAR | String | Maximum 200 characters | Message of contain useful information |
| Genre | VARCHAR | String | Not null | Category of the movie |
| Rating | DOUBLE | 64-bit double precision floating-point number | Not null | Value of the movie rating |
| Report | VARCHAR | String | Maximum 45 characters | Contents of the report |
| Type | VARCHAR | String | Maximum 45 characters | Type of the report |
| Owner | INT | 32-bit integer | 32-bit integer | Value of admin’s ID |
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Attributes domain.