**Hanime Project**

**Database Design**

This document provides the design of database structure for the Hanime Project

Note: the field in **bold** is primary key, and the field in *italic* is foreign key.

1. **Auth Table**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Data Type** | **Minimum length** | **Maximum length** | **Required** | **Unique** |
| 1 | **Auth Id** | Number |  |  | Yes | Yes |
| 2 | Username | Text | 8 | 32 | Yes |  |
| 3 | Password | Text | 8 | 16 | Yes | Yes |
| 4 | Roles | Text | 8 | 16 | Yes | Yes |

1. **Customer Table**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Data Type** | **Minimum length** | **Maximum length** | **Required** | **Unique** |
| 1 | **Customer Id** | Number |  |  | Yes | Yes |
| 2 | Full Name | Text | 8 | 30 | Yes |  |
| 3 | Email | Text | 8 | 64 | Yes | Yes |
| 4 | Phone Number | Text | 10 | 15 | Yes | Yes |
| 5 | Password | Text |  |  | Yes | Yes |
| 6 | Register Date | Date and time |  |  | Yes |  |

1. **Category Table**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Data Type** | **Minimum length** | **Maximum length** | **Required** | **Unique** |
| 1 | **Category Id** | Number |  |  | Yes | Yes |
| 2 | Category name | Text | 8 | 30 | Yes | Yes |
| 3 | Description | Text |  |  | Yes | Yes |

1. **Film Table**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Data Type** | **Minimum length** | **Maximum length** | **Required** | **Unique** |
| 1 | **Film Id** | Integer |  |  | Yes | Yes |
| 2 | Film Title | Text | 10 | 128 | Yes | Yes |
| 3 | Description | Text | 200 | 2000 | Yes |  |
| 4 | Thumnail URI | Text |  |  | Yes |  |
| 5 | Video URI | Text |  |  | Yes |  |
| 6 | Release Date | Date time |  |  | Yes |  |
| 7 | Length | Integer |  |  | Yes |  |
| 8 | *Category Id* | Integer | *Foreign Key to Category Table* | | | |

1. **View Table**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Data Type** | **Minimum length** | **Maximum length** | **Required** | **Unique** |
| 1 | **View Id** | Number |  |  | Yes | Yes |
| 2 | *Film Id* | Number | *Foreign key to Film table* | | | |
| 3 | *User Id* | Number | *Foreign key to Customer table* | | | |
| 4 | View Time | Date time |  |  |  |  |

1. **Rating Table**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Data Type** | **Minimum length** | **Maximum length** | **Required** | **Unique** |
| 1 | **Rating Id** | Number |  |  | Yes | Yes |
| 2 | *Film Id* | Number | *Foreign key to Film table* | | | |
| 3 | *User Id* | Number | *Foreign key to Customer table* | | | |
| 4 | Rating Time | Date time |  |  |  |  |
| 5 | Rating | Number |  |  |  |  |

1. **Comment Table**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Data Type** | **Minimum length** | **Maximum length** | **Required** | **Unique** |
| 1 | **Comment Id** | Number |  |  | Yes | Yes |
| 2 | *Film Id* | Number | *Foreign key to Film table* | | | |
| 3 | *User Id* | Number | *Foreign key to Customer table* | | | |
| 4 | Comment Time | Date and time |  |  |  |  |
| 5 | Comment | Text | 100 | 500 | Yes |  |

1. **User Table**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Data Type** | **Minimum length** | **Maximum length** | **Required** | **Unique** |
| 1 | **User ID** | Number |  |  | Yes | Yes |
| 2 | Email | Text | 10 | 64 | Yes | Yes |
| 3 | Full Name | Text | 8 | 30 | Yes |  |
| 4 | Password | Text |  |  | Yes |  |

And the following entity relationship diagram depicts the relationship among these tables:

