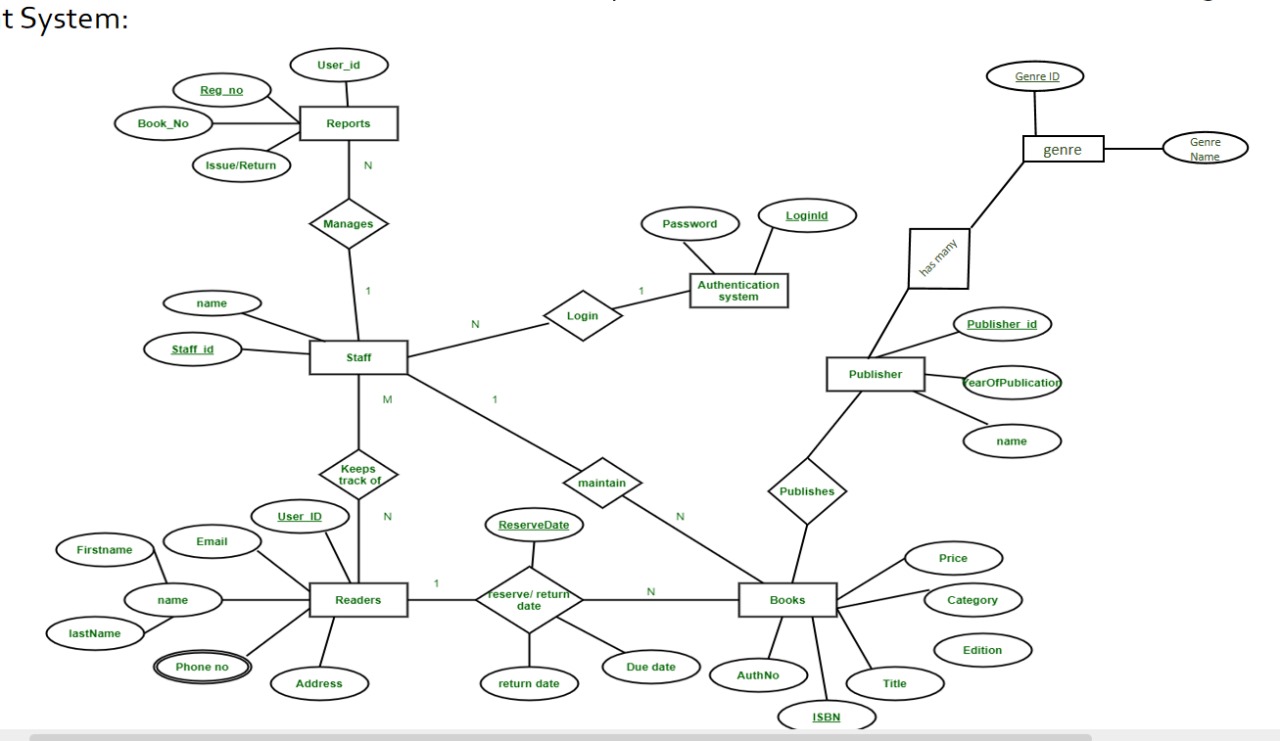
***Library Management System***

***ER Diagram:***

******

**Age**

**DOB**

***Relational Model:***

|  |  |  |  |
| --- | --- | --- | --- |
| **Reg\_No** | **User\_ID** | **Book\_No** | **Issue/Return** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

*Schema* :- Reports ( Reg\_No, User\_ID, Book\_No, Issue/Return )

|  |  |
| --- | --- |
| **Staff\_ID** | **Name** |
|  |  |
|  |  |
|  |  |

*Schema* :- Staff ( Staff\_ID, Name )

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **User\_ID** | **FirstName** | **LastName** | **DOB** | **Age** | **Email** | **Phone\_No1** | **Phone\_No2** | **Address** |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |

*Schema* :- Readers ( User\_ID, FirstName, LastName, DOB, Age, Email, Phone\_No1, Phone\_No2, Address )

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Auth\_No** | **ISBN** | **Title** | **Category** | **Edition** | **Price** |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

*Schema* :- Books ( Auth\_No, ISBN, Title, Category, Edition, Price )

|  |  |
| --- | --- |
| **Login\_ID** | **Password** |
|  |  |
|  |  |
|  |  |

*Schema* :- Authentication ( Login\_ID, Password )

|  |  |  |
| --- | --- | --- |
| **Publisher\_ID** | **Name** | **PublicationYear** |
|  |  |  |
|  |  |  |
|  |  |  |

*Schema* :- Publisher ( Publisher\_ID, Name, PublicationYear )

|  |  |
| --- | --- |
| **Genre\_ID** | **Name** |
|  |  |
|  |  |
|  |  |

*Schema* :- Genre ( Genre\_ID, Name )

|  |  |
| --- | --- |
| **Reg\_No** | **Staff\_ID** |
|  |  |
|  |  |
|  |  |

*Schema* :- Manages ( Reg\_No, Staff\_ID )

|  |  |
| --- | --- |
| **Login\_ID** | **Staff\_ID** |
|  |  |
|  |  |
|  |  |

*Schema* :- Login ( Login\_ID, Staff\_ID )

|  |  |
| --- | --- |
| **Staff\_ID** | **User\_ID** |
|  |  |
|  |  |
|  |  |

*Schema* :- Tracks ( Staff\_ID, User\_ID )

|  |  |
| --- | --- |
| **Staff\_ID** | **ISBN** |
|  |  |
|  |  |
|  |  |

*Schema* :- Maintain ( Staff\_ID, ISBN )

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **User\_ID** | **ISBN** | **ReserveDate** | **ReturnDate** | **DueDate** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

*Schema* :- Return ( User\_ID, ISBN, ReserveDate, ReturnDate, DueDate )

|  |  |
| --- | --- |
| **Publisher\_ID** | **ISBN** |
|  |  |
|  |  |
|  |  |

*Schema* :- Publishes ( Publisher\_ID, ISBN )

|  |  |
| --- | --- |
| **Publisher\_ID** | **Genre\_ID** |
|  |  |
|  |  |
|  |  |

*Schema* :- Types ( Publisher\_ID, Genre\_ID )