Database structure

Hamin Bookstore

Version 1.0

Hamin Bookstore

**Revision History**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| V# | Date of Revision | Description of Change | Reason for Change | Affected Sections | By |
| 1.0 | 15 Aug 2023 |  |  |  | Phuong Ha |
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**Approval History**

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| --- | --- | --- | --- |
| Version (x.y) | Prepared By | Reviewed By/Date | Approved By/Date |
| 1.0 |  |  |  |
|  |  |  |  |

**Signed Off By**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Person | Date/Time | Signature |
| 1 |  |  |  |
| 2 |  |  |  |
| 3 |  |  |  |

# TblUser

|  |  |  |  |
| --- | --- | --- | --- |
| Id | uniqueidentifier | default(newid()) Primary key |  |
| UserName | Varchar(255) | Not null (default(‘’)) |  |
| FirstName | Nvarchar(50) | Not null (default(‘’)) |  |
| LastName | Nvarchar(100) | Not null (default(‘’)) |  |
| Email | Varchar(100) | Not null (default(‘’)) |  |
| UserAddress | Ntext | Not null (default(‘’)) |  |
| UserPassword | Varchar(250) | Not null (default(‘’)) |  |
| Birthday | Datetime | Not null (default(getdate())) |  |
| Phone | Varchar(20) | Not null (default(‘’)) |  |
| Sex | bit | Not null (default(0)) |  |
| IsActivated | bit | Not null (default(1)) | Active / Lock the account |
| IsDeleted | bit | Not null (default(0)) | True to marked as soft delete |
| Avatar | Varchar(255) | Not null (default(‘’)) |  |
| CreatedUser | Varchar(30) | Not null (default(‘’)) |  |
| CreatedDate | Datetime | Not null (default(getdate())) |  |
| UpdatedUser | varchar(30) | Not null (default(‘’)) |  |
| UpdatedDate | Datetime | Not null (default(getdate())) |  |

# TblCategory

*Book Category*

|  |  |  |  |
| --- | --- | --- | --- |
| **Data field name** | **Data type** | **Required** | **Note** |
| Id | uniqueidentifier | default(newid()) Primary key |  |
| CategoryId | Varchar(10) | Not null (default(‘’)) |  |
| CategoryName | Varchar(100) | Not null (default(‘’)) |  |
| CategoryImage | Varchar(250) | Not null (default(‘’)) |  |

# TblAuthor

*Book Category*

|  |  |  |  |
| --- | --- | --- | --- |
| **Data field name** | **Data type** | **Required** | **Note** |
| Id | uniqueidentifier | default(newid()) Primary key |  |
| AuthorId | Varchar(10) | Not null (default(‘’)) |  |
| AuthorName | Nvarchar(50) | Not null (default(‘’)) |  |
| Address | Nvarchar(50) | Not null (default(‘’)) |  |
| Biography | Nvarchar(100) | Not null (default(‘’)) |  |
| Phone | Nvarchar(50) | Not null (default(‘’)) |  |

# TblPublisher

*Book Category*

|  |  |  |  |
| --- | --- | --- | --- |
| **Data field name** | **Data type** | **Required** | **Note** |
| Id | uniqueidentifier | default(newid()) Primary key |  |
| PublisherId | Varchar(10) | Not null (default(‘’)) |  |
| PublisherName | Nvarchar(50) | Not null (default(‘’)) |  |
| Address | Nvarchar(50) | Not null (default(‘’)) |  |
| Phone | Nvarchar(50) | Not null (default(‘’)) |  |

# TblCustomer

|  |  |  |  |
| --- | --- | --- | --- |
| Id | uniqueidentifier | default(newid()) Primary key |  |
| CustomerId | Varchar(10) | Not null (default(‘’)) |  |
| FullName | Nvarchar(100) | Not null (default(‘’)) |  |
| Email | Varchar(100) | Not null (default(‘’)) |  |
| CustomerAddress | Ntext | Not null (default(‘’)) |  |
| Phone | Varchar(20) | Not null (default(‘’)) |  |
| Sex | bit | Not null (default(0)) |  |
| Birthday | Datetime | Not null (default(getdate())) |  |
| Username | Varchar(255) | Not null (default(‘’)) |  |
| CustomerPassword | Varchar(250) | Not null (default(‘’)) |  |
| IsActivated | bit | Not null (default(1)) | Active / Lock the account |
| IsDeleted | bit | Not null (default(0)) | True to marked as soft delete |
| Avatar | Varchar(255) | Not null (default(‘’)) |  |
| CreatedUser | Varchar(30) | Not null (default(‘’)) |  |
| CreatedDate | Datetime | Not null (default(getdate())) |  |
| UpdatedUser | varchar(30) | Not null (default(‘’)) |  |
| UpdatedDate | Datetime | Not null (default(getdate())) |  |

# TblBook

*Book*

|  |  |  |  |
| --- | --- | --- | --- |
| **Data field name** | **Data type** | **Required** | **Description** |
| Id | uniqueidentifier | default(newid()) Primary key |  |
| BookId | Varchar(10) | Not null default(‘’) |  |
| BookTitle | Nvarchar(50) | Not null default(‘’) |  |
| Price | Decimal(18,2) | Not null default(0) |  |
| BookDescripton | Nvarchar(200) | Not null default(‘’) |  |
| BookImage | Nvarchar(50) | Not null default(‘’) |  |
| IsActivated | bit | Not null default(1) |  |
| IsDeleted | Bit | Not null default(0) |  |
| CreatedDate | Datetime | Not null (default(getdate())) |  |
| CreatedUser | Varchar(30) | Not null (default(‘’)) |  |
| UpdatedUser | varchar(30) | Not null (default(‘’)) |  |
| UpdatedDate | Datetime | Not null (default(getdate())) |  |
| Quantity | int | Not null default(0) |  |

# TblBookCategoryLinked

*This is the data object associated with the book data object and the category data object.*

|  |  |  |  |
| --- | --- | --- | --- |
| **Data field name** | **Data type** | **Required** | **Description** |
| Id | Uniqueidentifier | default(newid()) Primary key |  |
| CategoryId | Uniqueidentifier | Foreign key |  |
| BookId | Uniqueidentifier | Foreign key |  |

# TblBookAuthorLinked

*This is the data object associated with the book data object and the author data object.*

|  |  |  |  |
| --- | --- | --- | --- |
| **Data field name** | **Data type** | **Required** | **Description** |
| Id | Uniqueidentifier | default(newid()) Primary key |  |
| AuthorId | Uniqueidentifier | Foreign key |  |
| BookId | Uniqueidentifier | Foreign key |  |

# TblBookPricing

Set up price lists for time periods. 1am - 11pm -> Normal hours, 0am - 1am -> Sale hours

|  |  |  |  |
| --- | --- | --- | --- |
| **Data field name** | **Data type** | **Required** | **Description** |
| Id | uniqueidentifier | default(newid()) Primary key |  |
| FromHour | time | Not null default(‘00:00:00’) |  |
| ToHour | Time | Not null default(‘00:00:00’) |  |
| OriginalPrice | Decimal(18,2) | Not null default(0) |  |
| SaledPrice | Decimal(18,2) | Not null default(0) |  |
| IsActivated | bit | Not null default(1) |  |
| IsDeleted | bit | Not null default(0) |  |
| CreatedUser | varchar(30) | Not null default(‘’) |  |
| CreatedDate | datetime | Not null default(getdate()) |  |
| UpdatedUser | varchar(30) | Not null (default(‘’)) |  |
| UpdatedDate | datetime | Not null default(getdate()) |  |

# TblOrder

|  |  |  |  |
| --- | --- | --- | --- |
| **Data field name** | **Data type** | **Required** | **Description** |
| Id | uniqueidentifier | default(newid()) Primary key |  |
| OrderId | Varchar(10) | Not null default(‘’) |  |
| OrderDate | datetime | Not null default(getdate()) |  |
| DeliveryDate | datetime | Not null default(getdate()) |  |
| CustomerId | uniqueidentifier | Not null default newid() |  |
| Discount | Decimal(18,2) | Not null default(0) |  |
| TotalPrice | decimal(18,2) | Not null default(0) |  |
| PaymentPrice | decimal(18,2) | Not null default(0) |  |
| PaidPrice | decimal(18,2) | Not null default(0) |  |
| Status | varchar(20) | Not null default(‘’) |  |
| Note | ntext | Not null default(‘’) |  |
| IsDeleted | bit | Not null default(0) |  |
| UpdatedDate | datetime | Not null default getdate() |  |
| UpdatedUser | varchar(30) | Not null default(‘’) |  |

# TblOrderDetail

|  |  |  |  |
| --- | --- | --- | --- |
| **Data field name** | **Data type** | **Required** | **Description** |
| Id | uniqueidentifier | default(newid()) Primary key |  |
| OrderId | uniqueidentifier | Not null default(newid()) |  |
| BookId | uniqueidentifier | Not null default(newid()) |  |
| Discount | Decimal(18,2) | Not null default(0) |  |
| Quantity | Int | Not null default(0) |  |
| UnitPrice | decimal(18,2) | Not null default(0) |  |
| PaymentPrice |  |  |  |

# TblPermissions

*This is the data object used to store user rights.*

|  |  |  |  |
| --- | --- | --- | --- |
| **Data field name** | **Data type** | **Required** | **Description** |
| Id | uniqueidentifier | Primary key |  |
| PermissionsName | Varchar(100) | Not null (default(‘’) |  |
| ActionName | byte | Not null (default(0) | 1: view  2: edit & create  3: delete |

# TblUserPermissionsLinked

*This is the data object associated with the permissions data object and the user data object.*

|  |  |  |  |
| --- | --- | --- | --- |
| **Data field name** | **Data type** | **Required** | **Description** |
| Id | Uniqueidentifier | default(newid()) Primary key |  |
| UserId | Uniqueidentifier | Foreign key |  |
| PermissionsId | Uniqueidentifier | Foreign key |  |