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**LibraryManagement**

HCM 06/03/2010

**Signatures Pages**

**Pounder:** Huỳnh Quốc Tuấn <Date>

Admin

Từ Quý Phượng <Date>

Mod

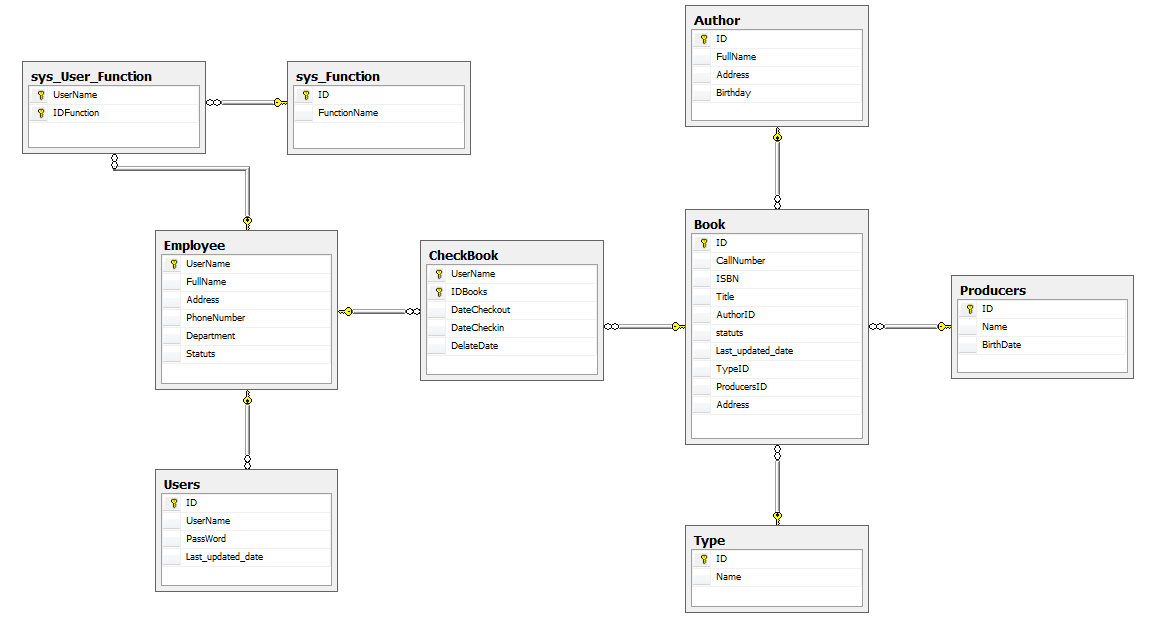
Từ Hùng <Date>

Mod

**Inspector:** Võ Đức Thiện <Date>

Customer

**DATATBASE**



**Use Case Diagram**

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**Flow**



When libraryManagement login success :

1. Can view book :
   1. Update books in system.
   2. Check in books to outside in system.
2. Can view member :
   1. Add new member in system.
   2. Update member in system.
   3. Lock member in system.
3. Can view repost

Else system retrun the login pages.

****When member login success :

1. Can view books and search books.
2. View informational this member.
3. Check in books and check out books.

**CODE CREATE DATABASE**

1. Create database : create database librarymanagement
2. Use this database : use librarymanagement
3. Creat table Employee :

CREATE TABLE [Employee] (

[UserName] NVARCHAR(40) NOT NULL,

[FullName] NVARCHAR(40),

[Address] NVARCHAR(40),

[PhoneNumber] NVARCHAR(40),

[Department] NVARCHAR(40),

[Statuts] BIT NOT NULL,

CONSTRAINT [PK\_Employee] PRIMARY KEY ([UserName])

)

1. Create table books :

CREATE TABLE [Book] (

[ID] INTEGER IDENTITY(0,1) NOT NULL,

[CallNumber] NVARCHAR(40) NOT NULL,

[ISBN] NVARCHAR(40) NOT NULL,

[Title] NVARCHAR(40),

[AuthorID] INTEGER NOT NULL,

[statuts] BIT NOT NULL,

[Last\_updated\_date] DATETIME,

[TypeID] INTEGER NOT NULL,

[ProducersID] INTEGER NOT NULL,

[Address] NVARCHAR(40),

CONSTRAINT [PK\_Book] PRIMARY KEY ([ID])

)

1. Create table check book :

CREATE TABLE [CheckBook] (

[UserName] NVARCHAR(40) NOT NULL,

[IDBooks] INTEGER NOT NULL,

[DateCheckout] DATETIME,

[DateCheckin] DATETIME,

[DelateDate] NVARCHAR(40),

CONSTRAINT [PK\_CheckBook] PRIMARY KEY ([UserName], [IDBooks])

)

1. Create table users :

CREATE TABLE [Users] (

[ID] INTEGER IDENTITY(0,1) NOT NULL,

[UserName] NVARCHAR(40) NOT NULL,

[PassWord] NVARCHAR(40),

[Last\_updated\_date] DATETIME,

CONSTRAINT [PK\_Users] PRIMARY KEY ([ID])

)

1. Create table sys\_User\_Function :

CREATE TABLE [sys\_User\_Function] (

[UserName] NVARCHAR(40) NOT NULL,

[IDFunction] INTEGER NOT NULL,

CONSTRAINT [PK\_sys\_User\_Function] PRIMARY KEY ([UserName], [IDFunction])

)

1. Create table Author :

CREATE TABLE [Author] (

[ID] INTEGER IDENTITY(0,1) NOT NULL,

[FullName] NVARCHAR(40),

[Address] NVARCHAR(40),

[Birthday] DATETIME,

CONSTRAINT [PK\_Author] PRIMARY KEY ([ID])

)

1. Create table Type :

CREATE TABLE [Type] (

[ID] INTEGER IDENTITY(0,1) NOT NULL,

[Name] NVARCHAR(40),

CONSTRAINT [PK\_Type] PRIMARY KEY ([ID])

)

1. **Create table Producers:**

CREATE TABLE [Producers] (

[ID] INTEGER IDENTITY(0,1) NOT NULL,

[Name] NVARCHAR(40),

[Address] NVARCHAR(40),

CONSTRAINT [PK\_Producers] PRIMARY KEY ([ID])

)

1. **Create foreign for all table :**

ALTER TABLE [Book] ADD CONSTRAINT [Author\_Book]

FOREIGN KEY ([AuthorID]) REFERENCES [Author] ([ID])

GO

ALTER TABLE [Book] ADD CONSTRAINT [Type\_Book]

FOREIGN KEY ([TypeID]) REFERENCES [Type] ([ID])

GO

ALTER TABLE [Book] ADD CONSTRAINT [Producers\_Book]

FOREIGN KEY ([ProducersID]) REFERENCES [Producers] ([ID])

GO

ALTER TABLE [CheckBook] ADD CONSTRAINT [Book\_CheckBook]

FOREIGN KEY ([IDBooks]) REFERENCES [Book] ([ID])

GO

ALTER TABLE [CheckBook] ADD CONSTRAINT [Employee\_CheckBook]

FOREIGN KEY ([UserName]) REFERENCES [Employee] ([UserName])

GO

ALTER TABLE [Users] ADD CONSTRAINT [Employee\_Users]

FOREIGN KEY ([UserName]) REFERENCES [Employee] ([UserName])

GO

ALTER TABLE [sys\_User\_Function] ADD CONSTRAINT [Employee\_sys\_User\_Function]

FOREIGN KEY ([UserName]) REFERENCES [Employee] ([UserName])

GO

ALTER TABLE [sys\_User\_Function] ADD CONSTRAINT [sys\_Function\_sys\_User\_Function]

FOREIGN KEY ([IDFunction]) REFERENCES [sys\_Function] ([ID])

GO