

## Database Tables:

**Table 01: User**

Field	Type	Constraint
UserId	Int	P.K (IS: 1001)
Email	VarChar(40)	Not Null
Password	Varchar(50)	Not Null
FullName	Varchar(50)	Not Null
PhoneNumber	Varchar(14)	Not Null
Address	VarChar(100)	Not Null
DOB	Date	Not Null
Gender	VarChar(10)	Not Null
Type	VarChar(10)	Not Null
NID/BirthCertificate	VarChar(20)	Not Null

**Table 02: Books**

Field	Type	Constraint
BookId	Int	P.K (IS: 2001)
BookName	VarChar(50)	Not Null
CategoryId	Id (F.K)	Not Null
WriterId	Int	Fk
Publisher	VarChar(150)	Not Null
Publishing Year	Int	Not Null
Price	Double(10,2)	Not Null

Condition	VarChar(5)	Not Null
Language	VarChar(50)	Not Null
Rating	Double(3,2)	Not Null
Book Sample Image 1	VarChar(300)	Not Null
Book Sample Image 2	VarChar(300)	Null
Book Sample Image 3	VarChar(300)	Null

**Table 03: Categories**

Field	Type	Constraint
BookID	int	FK
CategoryId	Int	P.K (IS: 2001)
CategoryName	VarChar(50)	Not Null

**Table 04: Seller**

Field	Type	Constraint
SellerID	Int	P.K (IS: 1001)
Email	VarChar(40)	Not Null
Password	Varchar(50)	Not Null
FullName	Varchar(50)	Not Null
PhoneNumber	Varchar(14)	Not Null
Address	VarChar(100)	Not Null
DOB	Date	Not Null
Gender	VarChar(10)	Not Null
Type	VarChar(10)	Not Null

NID/BirthCertificate	VarChar(20)	Not Null
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**Table 05: Shops**

Field	Type	Constraint
SellerID	Int	FK
ShopId	Int	P.K (IS: 1001)
ShopName	VarChar(40)	Not Null
Owner	Varchar(50)	Not Null
Type	Varchar(50)	Not Null
PhoneNumber	Varchar(14)	Not Null
Address	VarChar(100)	Not Null
Status(Approved)	Date	Not Null

**Table 06: Publisher**

Field	Type	Constraint
SellerID	Int	FK(IS: )
PublisherId	Int	P.K (IS: 6001)
Type	Varchar(50)	Not Null
Publisher Govt. Reg. Id	VarChar(40)	Not Null
Status(Approved)	Varchar(50)	Not Null

**Table 07: Writer**

Field	Type	Constraint
BookID	int	FK(IS:)
WriterId	Int	P.K(IS:7001)
WriterName	Varchar(50)	Not Null

Table 0: UserType

Field	Type	Constraint
Id	Int	P.K (IS: 1001)
Type	VarChar(10)	Not Null

Table 0: BookType

Field	Type	Constraint
Id	Int	P.K (IS: 1001)
Type	VarChar(30)	Not Null

## Database Relations:

### Relation 01: Buy

Field	Type	Constraint
UserId	Int	FK
SellerID	Int	FK
BookID	Int	FK
Price	Double	Not Null

### Relation 02: Publish

Field	Type	Constraint
PublisherId	Int	FK
BookID	Int	FK

### Relation 03: Sell

Field	Type	Constraint
SellerID	Int	FK
UserId	Int	FK
BookID	Int	FK
Price	Double	Not Null

