

BOOK CATALOG SYSTEM

1. CREATING MATHAN BOOK CATALOG SYSTEM SCHEMA:

```
create database Mathan_Book_Catalog_System;  
use Mathan_Book_Catalog_System ;
```

2. CREATING TABLES:

```
create table Mathan_Categories(  
    Category_id int primary key,  
    Category_Name varchar(50) unique not null  
);  
  
create table Mathan_Publishers(  
    Publisher_id int primary key,  
    Publisher_Name varchar(20) not null  
);  
  
create table MathanBooks (  
    book_id int primary key,  
    Title varchar(50) not null,  
    ISBN varchar(20) unique not null,  
    Publication_Year int not null,  
    Publisher_id int,  
    Category_id int,  
    Author_Name varchar(20) check(Author_Name is not null)  
);
```

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```
alter table MathanBooks add constraint foreign key (Publisher_id) references  
Mathan_Publishers (Publisher_id) on delete cascade;
```

```
alter table MathanBooks add constraint foreign key (Category_id) references  
Mathan_Categories (Category_id) on delete cascade;
```

```
create table Mathan_Users (  
    User_id int primary key,  
    Username varchar(20) not null,  
    Email varchar(20) unique not null,  
    Phone_Number varchar(25) unique not null  
);
```

```
create table Mathan_Borrowings(  
    Borrower_id int primary key ,  
    User_id int,  
    Book_id int,  
    Borrow_date date not null ,  
    Return_date date not null,  
    constraint foreign key (User_id) references Mathan_Users (User_id) on delete  
    cascade,  
    constraint foreign key (Book_id) references MathanBooks (book_id) on delete  
    cascade  
);
```

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3. INSERTING DATA:

insert into Mathan_Publishers values(1,'Mphasis');

insert into Mathan_Publishers values(2,'Dhoni');

insert into Mathan_Publishers values(3,'udupi');

insert into Mathan_Publishers values(4,'akatsukhi');

insert into Mathan_Publishers values(5,'thomas');

insert into MathanBooks values(1,'abc','ISBN123456',2001,1,1,'saru');

insert into MathanBooks values(2,'Cricket','ISBN1256',2002,2,2,'sachin');

insert into MathanBooks values(3,'NonVeg','ISBN7894',2003,3,3,'Subbu');

insert into MathanBooks values(5,'ThomasShelby','ISBN78454',2005,5,5,'Steven');

insert into MathanBooks

values(4,'Naruto','ISBN78684',2004,4,4,'MasahiKhisimoto');

insert into Mathan_Borrowings values(1,1,1,'2024-01-10','2024-01-12');

insert into Mathan_Borrowings values(2,2,2,'2024-01-11','2024-01-13');

insert into Mathan_Borrowings values(3,3,3,'2024-01-12','2024-01-14');

insert into Mathan_Borrowings values(4,4,4,'2024-01-13','2024-01-15');

insert into Mathan_Borrowings values(5,5,5,'2024-01-14','2024-01-16');

insert into Mathan_Users values(1,'Mathan','mathan@gmail.com',9514487354);

insert into Mathan_Users values(2,'marshal','marshal@gmail.com',123456789);

insert into Mathan_Users values(3,'Santhosh','Santhosh@gmail.com',987456789);

insert into Mathan_Users values(4,'Vijay','Vijay@gmail.com',967891324);

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```
insert into Mathan_Users values(5,'Naveen','Naveen@gmail.com',987652134);
```

3. FETCHING DATA:

```
select * from Mathan_Users;
```

```
select * from MathanBooks;
```

```
select * from Mathan_Categories;
```

```
select * from Mathan_Publishers;
```