**NAME :MATHAN P**

**EMPLOYEE ID :2604070**

1. **CREATING MATHAN BOOK CATALOG SYSTEM SCHEMA:**

create database Mathan\_Book\_Catalog\_System;

use Mathan\_Book\_Catalog\_System ;

1. **CREATING TABLES FOR CATEGORIES:**

create table Mathan\_Categories(

Category\_id int primary key,

Category\_Name varchar(50) unique not null

);

**INSERTING DATA IN CATEGORIES TABLE :**

insert into Mathan\_Categories values(1,'Alphabets');

insert into Mathan\_Categories values(2,'games');

insert into Mathan\_Categories values(3,'food');

insert into Mathan\_Categories values(4,'anime');

insert into Mathan\_Categories values(5,'webseries');

1. **CREATING TABLES FOR PUBLISHER :**

create table Mathan\_Publishers(

Publisher\_id int primary key,

Publisher\_Name varchar(20) not null

);

**INSERTING DATA IN PUBLISHER TABLE :**

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');

1. **CREATING TABLES FOR BOOKS :**

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)

);

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;

**INSERTING DATA IN BOOKS TABLE :**

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');

**5.CREATING TABLES FOR USERS :**

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

);

**INSERTING DATA IN USERS TABLE :**

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);

insert into Mathan\_Users values(5,'Naveen','Naveen@gmail.com',987652134);

**6.CREATING TABLES FOR BORROWINGS :**

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

);

**INSERTING DATA IN BOOKS BORROWINGS :**

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');

**3. FETCHING ALL THE RECORDS:**

select MathanBooks.book\_id ,MathanBooks.Title, MathanBooks.ISBN,MathanBooks.Publication\_Year ,MathanBooks.Author\_Name,

Mathan\_Categories.Category\_Name,

Mathan\_Publishers.Publisher\_Name,

Mathan\_Users.Username,Mathan\_Users.Email,Mathan\_Users.Phone\_Number,

Mathan\_Borrowings.Borrow\_date,Mathan\_Borrowings.Return\_date

from Mathan\_Borrowings

join Mathan\_Users on Mathan\_Users.User\_id=Mathan\_Borrowings.User\_id

join MathanBooks on MathanBooks.book\_id=Mathan\_Borrowings.Book\_id

join Mathan\_Publishers on Mathan\_Publishers.Publisher\_id=MathanBooks.Book\_id

join Mathan\_Categories on Mathan\_Categories.Category\_id=MathanBooks.Category\_id;