**Name: Marshal X**

**Employee ID: 2604307**

**STEP 1: CREATING SCHEMA.**

create database bookcatalog;

use bookcatalog;

**STEP 2: CREATING TABLES.**

create table categories (

category\_id int primary key,

category\_name varchar(30) unique not null

);

create table publishers (

publisher\_id int primary key,

publisher\_name varchar(30) not null

);

create table book(

bookid int primary key,

title varchar(20) not null,

ISBN varchar(10) unique not null,

publication\_year int not null,

publisher\_id int,

category\_id int,

author\_name varchar(30) check(author\_name is not null),

constraint foreign key (publisher\_id) references publishers (publisher\_id) on delete cascade,

constraint foreign key (category\_id) references categories (category\_id) on delete cascade

);

create table users (

userid int primary key,

user\_name varchar(30) not null,

email varchar(40) unique not null,

phone\_no varchar(25) unique not null

);

create table borrowings (

borrow\_id int primary key,

user\_id int,

bookid int,

borrow\_date date not null,

return\_date date not null,

constraint foreign key (user\_id) references users (userid) on delete cascade,

constraint foreign key (bookid) references book (bookid) on delete cascade

);

**STEP 3: INSERTING VALUES TO THE COLUMNS.**

insert into categories values (2,'anime');

insert into publishers values (2,'Manga');

insert into book VALUES(2,'one piece','op301',1995,2,2,'eiichiro oda');

insert into users values(102,'Marshal','mars@gmail.com','8855776634');

insert into borrowings values(202,102,1,'2024-07-07','2024-07-10'); insert into categories values(3,'self-help');

insert into publishers values(3,'random house');

insert into book value(3,'power of mind','pom3','1982',3,3,'joseph murphy');

insert into users values(103,'josh','josh@gmail.com','8899445536');

insert into borrowings values(203,103,3,"2024-06-01","2024-06-10");

insert into categories values(4,'story'),(5,'sci-fi');

insert into publishers values(4,'martel'),(5,'narxo');

insert into book value(4,'The Leader','Msd4','2016',4,4,'Biswadeep ghosh'),(5,'The big bang Theory','bbt5',1918,5,5,'Albert');

insert into users values(104,'ravi','ravi@gmail.com','8899445537'),(105,'Vijay','vijay@gmail.com','8844556622');

insert into borrowings values(204,104,4,"2024-06-20","2024-06-25"),(205,105,5,'2024-05-14','2024-06-15');

**STEP 4: LIST THE TABLES FROM DATABASE.**

select \* from book;

select \* from categories;

select \* from publishers;

select \* from users;

select \* from borrowings;

**STEP 5: JOINING ALL THE TABLES.**

SELECT

br.borrow\_id,

br.borrow\_date,

br.return\_date,

u.userid,

u.user\_name,

u.email,

u.phone\_no,

b.bookid,

b.title,

b.ISBN,

b.publication\_year,

b.author\_name,

p.publisher\_id,

p.publisher\_name,

c.category\_id,

c.category\_name

FROM

borrowings br

JOIN

users u ON br.user\_id = u.userid

JOIN

book b ON br.bookid = b.bookid

JOIN

publishers p ON b.publisher\_id = p.publisher\_id

JOIN

categories c ON b.category\_id = c.category\_id;