# **MINI PROJECT – 1 : CREATING DATABASE SCHEMAS**

**BOOKING CATALOG SYSTEM**

create database MINIPROJECT;

use MINIPROJECT;

create table publishers (

publisher\_id int primary key,

publisher\_name varchar(237) not null

);

Insert into publishers values(1,'Hal Leonard Corporation');

Insert into publishers values(2,' Atria Books');

Insert into publishers values(3,' Bloomsbury');

select \* from publishers;

---output

|  |  |
| --- | --- |
| publisher\_id | publisher\_name |
| 1 | Hal Leonard Corporation |
| 2 | Atria Books |
| 3 | Bloomsbury |

create table categories (

category\_id int primary key,

category\_name varchar(237) unique not null

);

Insert into categories values(1, 'Adventure');

Insert into categories values(2, 'Fantasy');

Insert into categories values(3, 'Sc-Fi');

select \* from categories;

---output

|  |  |
| --- | --- |
| category\_id | category\_name |
| 1 | Adventure |
| 2 | Fantasy |
| 3 | Sc-Fi |

create table users (

user\_id int primary key,

user\_name varchar(237) not null,

email varchar(237) unique not null,

phone\_number bigint unique not null

);

Insert into users values(10,'Sow','sow123@gmail.com',9876543210);

Insert into users values(11,'Janya','janya456@gmail.com',9123456789);

Insert into users values(12,'Dusky','dusky789@gmail.com',9098765432);

select \* from users;

---output

|  |  |  |  |
| --- | --- | --- | --- |
| user\_id | user\_name | email | phone\_number |
| 10 | Sow | sow123@gmail.com | 9876543210 |
| 11 | Janya | janya456@gmail.com | 9123456789 |
| 12 | Dusky | dusky789@gmail.com | 9098765432 |

create table books (

book\_id int primary key,

title varchar(237) not null,

ISBN bigint unique not null,

publication\_year date not null,

publisher\_id int,

category\_id int,

auther\_name varchar(237) check(auther\_name is not null),

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

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

);

Insert into books values(100,'THE LION KING',10,'1999-08-01',1,1,'LEONARD ');

Insert into books values(101,'CRINDERELLA',11,'2002-08-12',2,2,'CHARLES PERRAULT');

Insert into books values(102,'AVATAR',12,'2003-08-12',3,3,'JAMES CAMERON');

select \* from books;

---output

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| book\_id | title | ISBN | publication\_year | publisher\_id | category\_id | auther\_name |
| 100 | THE LION KING | 10 | 8/1/1999 | 1 | 1 | LEONARD |
| 101 | CRINDERELLA | 11 | 8/12/2002 | 2 | 2 | CHARLES PERRAULT |
| 102 | AVATAR | 12 | 8/12/2003 | 3 | 3 | JAMES CAMERON |

create table Borrowings (

Borrow\_id int primary key,

user\_id int,

book\_id int,

Borrow\_date date not null,

return\_date date not null,

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

foreign key(book\_id) references books (book\_id) on delete cascade

);

Insert into Borrowings values(200,10,100,'2024-12-12','2024-12-15');

Insert into Borrowings values(201,11,101,'2024-12-07','2024-12-18');

Insert into Borrowings values(202,12,102,'2024-12-03','2014-12-13');

select \* from borrowings;

---output

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Borrow\_id | user\_id | book\_id | Borrow\_date | return\_date |
| 200 | 10 | 100 | 12/12/2024 | 12/15/2024 |
| 201 | 11 | 101 | 12/7/2024 | 12/18/2024 |
| 202 | 12 | 102 | 12/3/2024 | 12/13/2014 |

select publisher\_name, category\_name, user\_name, email, phone\_number, title, ISBN, publication\_year, auther\_name, Borrow\_id, Borrow\_date, return\_date

from books b

Join publishers p on (b.publisher\_id=p.publisher\_id)

Join categories c on (b.category\_id=c.category\_id)

Join Borrowings br on (b.book\_id=br.book\_id)

Join users u on (br.user\_id=u.user\_id

);

----output

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| publisher\_name | category\_name | user\_name | email | phone\_number | title | ISBN | publication\_year | auther\_name | Borrow\_id | Borrow\_date | return\_date |
| Hal Leonard Corporation | Adventure | Sow | sow123@gmail.com | 9876543210 | THE LION KING | 10 | 8/1/1999 | LEONARD | 200 | 12/12/2024 | 12/15/2024 |
| Atria Books | Fantasy | Janya | janya456@gmail.com | 9123456789 | CRINDERELLA | 11 | 8/12/2002 | CHARLES PERRAULT | 201 | 12/7/2024 | 12/18/2024 |
| Bloomsbury | Sc-Fi | Dusky | dusky789@gmail.com | 9098765432 | AVATAR | 12 | 8/12/2003 | JAMES CAMERON | 202 | 12/3/2024 | 12/13/2014 |