**MINI PROJECT**

**BOOK CATALOG SYSTEM**

**/\* Creating Database \*/**

Create database Book\_catalog\_system;

Use Book\_catalog\_system;

**/\* Creating Categories Table \*/**

create table Categories(

Category\_Id int primary key,

Category\_Name varchar(255) unique not null);

INSERT INTO Categories values(10,'Song'), (11,'Game'), (12,'Music'), (13,'Socialmedia'),

(14, 'Sports');

SELECT \* FROM Categories;

/\* OUTPUT;

|  |  |
| --- | --- |
| Category\_Id | Category\_Name |
| 11 | Game |
| 12 | Music |
| 13 | Socialmedia |
| 10 | Song |
| 14 | Sports |

\*/

**/\*Creating Publishers Table \*/**

create table Publishers(

Publisher\_Id int primary key,

Publisher\_Name varchar(255) not null);

INSERT INTO Publishers values(100,'Vinod'),(101,'Praveen'),(102,'Shyam'),(103,'Uday');

SELECT \* FROM Publishers;

/\* OUTPUT:

|  |  |
| --- | --- |
| Publisher\_id | Publisher\_Name |
| 100 | Vinod |
| 101 | Praveen |
| 102 | Shyam |
| 103 | Uday |

\*/

**/\*Creating Books Table \*/**

create table Books(

Books\_Id int primary key,

Title varchar(255) not null,

ISBN varchar(255) unique not null,

Publication\_year int not null,

Publisher\_Id int,

Category\_Id int,

Foreign key(Publisher\_Id) references Publishers(Publisher\_Id) on delete cascade,

Foreign key (Category\_Id) references Categories(Category\_Id) on delete cascade,

Author\_Name varchar(255) check (Author\_Name !=''));

Insert into Books values (1,'Lionking','TENL10',1999,100,10,'Linga'), (2,'Termination','TUJK10',1998,102,11,'Peter'), (3,'Fibacon','HDHI1',1997,103,13,'Smith'), (4,'Life','GUGJH0',1999,103,10,'Setven');

SELECT \* FROM Books;

/\* OUTPUT:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Books\_Id | Title | ISBN | Publication\_year | Publisher\_Id | Category\_Id | Author\_Name |
| 1 | Lionking | TENL10 | 1999 | 100 | 10 | Linga |
| 2 | Termination | TUJK10 | 1998 | 102 | 11 | Peter |
| 3 | Fibacon | HDHI1 | 1997 | 103 | 13 | Smith |
| 4 | Life | GUGJH0 | 1999 | 103 | 10 | Setven |

\*/

**/\*Creating Users Table \*/**

create table Users(

User\_Id int primary key,

Username varchar(255) not null,

Email varchar(255) not null,

Phone\_Number varchar(255) unique not null);

INSERT INTO Users values (1000,'Vinul','p@gmail.com','9807000006'),(1001,'Pramodkrishna','a@gmaul.com','9845523244'), (1002,'Shyamsunder','s@gmail.com','7644567867'),(1003,'Demaon','d@gmail.com','652368933');

SELECT \* FROM Users;

/\* OUTPUT:

|  |  |  |  |
| --- | --- | --- | --- |
| User\_Id | Username | Email | Phone\_Number |
| 1000 | Vinul | [p@gmail.com](mailto:p@gmail.com) | 9807000006 |
| 1001 | Pramodkrishna | [a@gmaul.com](mailto:a@gmaul.com) | 9845523244 |
| 1002 | Shyamsunder | [s@gmail.com](mailto:s@gmail.com) | 7644567867 |
| 1003 | Demaon | [d@gmail.com](mailto:d@gmail.com) | 652368933 |

\*/

**/\*Creating Borrowings Table \*/**

create table Borrowings(

Borrow\_Id int primary key,

User\_Id int,

Books\_Id int,

Foreign key(User\_Id) references Users(User\_Id) on delete cascade,

Foreign key(Books\_Id) references Books(Books\_Id) on delete cascade,

Borrow\_date date not null,

Return\_date date not null

);

insert into Borrowings values (12,1000,1,'2011-12-1','2012-1-4'),

(13,1001,2,'2019-1-1','2019-10-4'), (14,1002,1,'2009-12-1','2010-1-4'),

(15,1001,3,'2010-4-2','2011-9-16');

SELECT \* FROM Borrowings;

/\* OUTPUT:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Borrow\_Id | User\_Id | Books\_Id | Borrow\_date | Return\_date |
| 12 | 1000 | 1 | 2011-12-01 | 2012-01-04 |
| 13 | 1001 | 2 | 2019-01-01 | 2019-10-04 |
| 14 | 1002 | 1 | 2009-12-01 | 2010-01-04 |
| 15 | 1001 | 3 | 2010-04-02 | 2011-09-16 |

\*/

**/\*To fetch all the records \*/**

Select books.Books\_id,Borrowings.Borrow\_Id,Publishers.Publisher\_Id,Categories.Category\_Id,Users.user\_id,Users.Username,Users.Email,Users.Phone\_Number,books.ISBN, Publishers.Publisher\_Name,Categories.Category\_Name,books.Title,books.Publication\_year,books.Author\_Name,

Borrowings.Borrow\_date,Borrowings.Return\_date from books join Publishers on (books.publisher\_id=Publishers.publisher\_id)

join categories on(books.category\_id=categories.category\_id) join Borrowings on(books.Books\_Id=Borrowings.Books\_Id)

join users on(Borrowings.user\_id=users.user\_id);

/\* OUTPUT:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Books\_id | Borrow\_Id | Publisher\_Id | Category\_Id | User\_id | Username | Email | Phone\_Number | ISBN | Publisher\_Name | Category\_Name | Title | Publication\_year | Author\_Name | Borrow\_date | Return\_date |
| 1 | 12 | 100 | 10 | 1000 | Vinul | [p@gmail.com](mailto:p@gmail.com) | 9807000006 | TENL10 | Vinod | Song | Lionking | 1999 | Linga | 12/1/2011 | 1/4/2012 |
| 1 | 14 | 100 | 10 | 1002 | Shyamsunder | [s@gmail.com](mailto:s@gmail.com) | 7644567867 | TENL10 | Vinod | Song | Lionking | 1999 | Linga | 12/1/2009 | 1/4/2010 |
| 2 | 13 | 102 | 11 | 1001 | Pramodkrishna | [a@gmaul.com](mailto:a@gmaul.com) | 9845523244 | TUJK10 | Shyam | Game | Termination | 1998 | Peter | 1/1/2019 | 10/4/2019 |
| 3 | 15 | 103 | 13 | 1001 | Pramodkrishna | [a@gmaul.com](mailto:a@gmaul.com) | 9845523244 | HDHI1 | Uday | Socialmedia | Fibacon | 1997 | Smith | 4/2/2010 | 9/16/2011 |

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