**MINI PROJECT\_1**

**TITLE: Book Catalog System**

**Creating Database Schema:**

CREATE database MINI\_PROJECT\_1;

USE MINI\_PROJECT\_1;

CREATE TABLE CATEGORIES (CATEGORY\_ID INT PRIMARY KEY, CATEGORY\_NAME VARCHAR(50) UNIQUE KEY NOT NULL);

DESC CATEGORIES;

INSERT INTO CATEGORIES VALUES (100,'SCHOOL'),(200,'COLLEGE'),(300,'LIBRARY'),(400,'UNIVERSITY');

CREATE TABLE PUBLISHERS (PUBLISHER\_ID INT PRIMARY KEY, PUBLISHER\_NAME VARCHAR(50) NOT NULL);

DESC PUBLISHERS;

INSERT INTO PUBLISHERS VALUES(10,'RAVIKIRAN PUBLISHERS PVT LTD'),(20,'SURYA PUBLISHERS PVT LTD'),(30,'FALCON PUBLISHERS PVT LTD'),(40,'RAGHAVENDRA PUBLISHERS PVT LTD');

CREATE TABLE USERS (USER\_ID INT PRIMARY KEY, USER\_NAME VARCHAR(25) NOT NULL, EMAIL VARCHAR(50) UNIQUE KEY NOT NULL, PHONE\_NUMBER INT UNIQUE KEY NOT NULL);

DESC USERS;

INSERT INTO USERS VALUES (50,'RAGHAV','RAGHAV@GMAIL.COM',123),(100,'VEERU','VEERU@GMAIL.COM',456),(150,'SAI','SAI@GMAIL.COM',678),(200,'UDAY','UDAY@GMAIL.COM',91011);

CREATE TABLE BOOKS(BOOK\_ID INT PRIMARY KEY,TITLE VARCHAR(100) NOT NULL, ISBN INT UNIQUE KEY NOT NULL, PUBLICATION\_YEAR INT NOT NULL, PUBLISHER\_ID INT,CATEGORY\_ID INT,AUTHOR\_NAME VARCHAR(40),

FOREIGN KEY(PUBLISHER\_ID) REFERENCES PUBLISHERS(PUBLISHER\_ID) ON DELETE CASCADE,

FOREIGN KEY(CATEGORY\_ID) REFERENCES CATEGORIES(CATEGORY\_ID) ON DELETE CASCADE,

CHECK(AUTHOR\_NAME IS NOT NULL));

DESC BOOKS;

insert into BOOKS VALUES (201,'TELUGU',301,2010,10,100,'SWAMI VIVEKA NANDA'),(202,'HINDHI',302,2011,20,200,'EDWARD JENNER'),(203,'ENGLISH',303,2012,30,300,'SRI SRI'),(204,'MATHS',304,2013,40,400,'ARYABATTA');

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);

DESC BORROWINGS;

INSERT INTO BORROWINGS VALUES(500,50,201,'2024-07-07','2024-07-08'),(1000,100,202,'2024-07-08','2024-07-09'),(1500,150,203,'2024-07-10','2024-07-11'),(2000,200,204,'2024-07-11','2024-07-12');

SELECT\*FROM CATEGORIES;

SELECT\*FROM PUBLISHERS;

SELECT\*FROM USERS;

SELECT\*FROM BOOKS;

SELECT\*FROM BORROWINGS;

SELECT\*

FROM BOOKS B

RIGHT JOIN PUBLISHERS P ON B.PUBLISHER\_ID= P.PUBLISHER\_ID

RIGHT JOIN CATEGORIES C ON B.CATEGORY\_ID= C.CATEGORY\_ID

RIGHT JOIN BORROWINGS BR ON B.BOOK\_ID= BR.BOOK\_ID

RIGHT JOIN USERS U ON BR.USER\_ID=U.USER\_ID;

**SUBMITTED BY:**

MADHIRI RAGHAVENDRA REDDY

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