SQL PROJECT BASED ON LIBRARY MANAGEMENT SYSTEM

ERD

Admin

1

M M

BOOKS

MEMBER

**LMS**

**Transaction**

M

DATABASE TABLE

|  |  |  |  |
| --- | --- | --- | --- |
| ADMIN | MEMBER | BOOKS | TRANSACTION |
| Login ID-varchar | Member ID-Int Primary Key | Book ID-Int Primary Key | Transaction ID-Int Primary Key |
| Password-varchar | Name-varchar (50) | Title-varchar (50) | Issue Date-Date |
|  | Email-varchar (50) | Author-varchar (50) | Return Date-Date |
|  | Phone-Int | Publisher-varchar (50) | Payment-Int |
|  | Address-varchar (50) | Price-int |  |
|  |  | Copy-int |  |

SQL CODING

* **For Create Database: -**

Create Database LMS;

* **For Use Database: -**

Use LMS;

* **Create Table: -**

1. Create table ADMIN (USERID VARCHAR (50),

PASSWORD VARCHAR (50));

1. Create table MEMBER (MEMID INTEGER PRIMARY KEY AUTO\_INCREMENT,

NAME VARCHAR (50),

EMAIL VARCHAR (50),

PHONE SMALLINT,

ADDRESS VARCHAR (50));

1. Create table BOOKS (BOOKSID INTEGER PRIMARY KEY AUTO\_INCREMENT,

TITLE (50),

AUTHOR VARCHAR (50),

PUBLISHER VARCHAR (10),

PRICE REAL

COPIES SMALLINT);

1. Create table TRANSACTION (TRANSACTIONID INTEGER PRIMARY KEY,

BOOKSID INTEGER REFERENCES BOOKS(BOOKSID),

MEMBERID INTEGER REFERENCES STUDENTS(MEMBERID),

ISSUE\_DATE DATE,

RETURN\_DATE DATE,

PAYMENT SMALLINT);

**INSERT VALUE IN TABLE: -**

* **Insert Value in Admin: -**

1. INSERT INTO ADMIN (USERID, PASSWORD) values (‘CHANDRIKA’,’ABC@123’);

select \* from ADMIN

* **Insert Value in Member: -**

2. INSERT INTO MEMBER (MEMBERID, NAME, EMAIL, PHONE, ADDRESS) values (1, 'AJIT', AMIT@GMAIL.COM,'981928',’MUMBAI’);

INSERT INTO MEMBER (MEMBERID, NAME, EMAIL, PHONE, ADDRESS) values (2, 'AJAY', AJAY@GMAIL.COM,'765478',’DELHI’);

INSERT INTO MEMBER (MEMBERID, NAME, EMAIL, PHONE, ADDRESS) values (2, 'KAJAL', [KAJAL@GMAIL.COM,'746388',’GUJARAT](mailto:KAJAL@GMAIL.COM,'746388',’GUJARAT)’);

select \* from MEMBER

* **Insert Value in Books: -**

INSERT INTO BOOKS(BOOKID,TITLE,AUTHOR,PUBLISHER,PRICE,COPIES) VALUES(01,'Python','Swapnil Saurav’, ‘Top Mentor’,300,6);

INSERT INTO BOOKS(BOOKID, TITLE,AUTHOR,PUBLISHER,PRICE,COPIES) VALUES(02,'SQL','Swapnil Saurav’, ‘Top Mentor’,700,10);

INSERT INTO BOOKS(BOOKID,TITLE,AUTHOR,PUBLISHER,PRICE,COPIES) VALUES(03,'Mathematics & Statistics’, ‘Swapnil Saurav’, ‘Top Mentor’,900,4);

INSERT INTO BOOKS(BOOKID,TITLE,AUTHOR,PUBLISHER,PRICE,COPIES) VALUES(04,'Data Visualization’, ‘Swapnil Saurav’, ‘Top Mentor’,700,8);

INSERT INTO BOOKS(BOOKID, TITLE,AUTHOR,PUBLISHER,PRICE,COPIES) VALUES(05,'Machine Learning’, ‘Swapnil Saurav’, ‘Top Mentor’,800,19);

select \* from BookS