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Link: <http://34.152.33.117/>

Listed Below:

* Relational Mapping
* Updated/Fixed ER Diagram
* DDL and DML Statements ( .SQL file also included in submission)

Relational Mapping:

Customer (username, pin, first name, last name, address, city, state, zip, credit card no, credit card type, expiration date)

Books (ISBN**,** title, publisher, category, price, *authorID*)

Author (authorID, first name, last name)

Reviews (*ISBN,* review)

Orders (Order Number, Order Date, Order Time, *username*, *ISBN*)

**Updated ER:**

**Diagram, engineering drawing

Description automatically generated**

**DDL:**

CREATE TABLE ORDERS(

order\_number varchar(100) primary key,

order\_date varchar(10),

order\_time varchar(8),

username varchar(20),

ISBN varchar(30),

FOREIGN KEY(ISBN) REFERENCES BOOKS(ISBN),

FOREIGN KEY(username) REFERENCES CUSTOMER(username)

);

CREATE TABLE CUSTOMER (

  username varchar(20) primary key,

  pin varchar(4) NOT NULL,

  first\_name varchar(20) NOT NULL,

  last\_name varchar(20) NOT NULL,

  address varchar(20) NOT NULL,

  city varchar(20) NOT NULL,

  state varchar(20) NOT NULL,

  zip varchar(5) NOT NULL,

  credit\_card\_no varchar(16) NOT NULL,

  credit\_card\_type varchar(15) NOT NULL,

  expiration\_date varchar(4) NOT NULL

);

CREATE TABLE AUTHOR(

AuthorID int(5) primary key,

    firstname varchar(40),

    lastname varchar(40)

);

CREATE TABLE REVIEWS(

    ISBN varchar(30) primary key,

    review varchar(3000),

    FOREIGN KEY (ISBN) REFERENCES BOOKS(ISBN)

);

CREATE TABLE BOOKS(

ISBN varchar(30) primary key,

    title varchar(300) NOT NULL,

    publisher varchar(100) NOT NULL,

    category varchar(50) NOT NULL,

    price decimal(6, 2) NOT NULL,

    AuthorID int(5),

    FOREIGN KEY(AuthorID) REFERENCES AUTHOR(AuthorID)

);

**DML:**

INSERT INTO AUTHOR VALUES(1, "John", "Steinbeck");

INSERT INTO AUTHOR VALUES(2, "Lee", "Harper");

INSERT INTO AUTHOR VALUES(3, "J.R.R", "Tolkien");

INSERT INTO AUTHOR VALUES(4, "Stephen", "King");

INSERT INTO AUTHOR VALUES(5, "J.K", "Rowling");

INSERT INTO BOOKS VALUES("9780140177398", "Of Mice and Men", "Penguin Publishing Group","Fiction", 10.99, 1);

INSERT INTO BOOKS VALUES("9780679732242", "To Kill a Mockingbird", "J,P Lippincott & Co", "Fiction", 8.99, 2);

INSERT INTO BOOKS VALUES("9780452284234","The Fellowship of the Ring", "Allen and Unwin", "Adventure", 19.99, 3);

INSERT INTO BOOKS VALUES("9780142000663","Misery", "Viking Press","Horror", 14.99, 4);

INSERT INTO BOOKS VALUES("9780140177374","Harry Potter and the Chamber of Secrets", "Bloomsburg Publishing","Fantasy", 11.99, 5);

INSERT INTO REVIEWS VALUES("9780140177398", "Great Book");

INSERT INTO REVIEWS VALUES("9780679732242", "What an ending");

INSERT INTO REVIEWS VALUES("9780452284234", "Not that interesting");

INSERT INTO REVIEWS VALUES("9780142000663", "Awful");

INSERT INTO REVIEWS VALUES("9780140177374", "Dont waste your time");

INSERT INTO CUSTOMER VALUES("mich23", "1354", "Michael", "May", "2345 Maple St",  "Dearborn", "Michigan", "48168", "5555888844443333", "VISA", "0824");

INSERT INTO CUSTOMER VALUES("aghaleb1", "1052", "Ali", "Ghaleb", "1234 Maple St",  "Dearborn", "Michigan", "48168", "3333444499992222", "MASTER", "1225");

INSERT INTO CUSTOMER VALUES("ericacart", "1052", "Erica", "Carter", "934 Jackson St",  "Dallas", "Texas", "09182", "2222444488882222", "MASTER", "0925");

INSERT INTO CUSTOMER VALUES("lizout12", "8523", "Elizabeth", "Warwick", "8430 Ryder Blvd",  "Sacramento", "California", "97128", "7777333366660000", "DISCOVER", "1123");

INSERT INTO CUSTOMER VALUES("132tonyvic", "7788", "Tony", "Vicci", "992 Carson Ave",  "Brighton", "Michigan", "48116", "4444888877770110", "DISCOVER", "1026");

INSERT INTO ORDERS VALUES("089984320", "2021-10-31", "08-24-05", "mich23", "9780140177398");

INSERT INTO ORDERS VALUES("111584320", "2020-11-03", "08-24-05", "aghaleb1", "9780679732242");

INSERT INTO ORDERS VALUES("249984320", "2019-07-19", "08-24-05", "ericacart", "9780452284234");

INSERT INTO ORDERS VALUES("779984320", "2021-11-10", "08-24-05", "lizout12", "9780142000663");

INSERT INTO ORDERS VALUES("442484320", "2020-03-21", "08-24-05", "132tonyvic", "9780140177374");