1DV503/1DT903 Database Technology and Modeling
Assignment 3

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Task 1:

To solve the first task, I first looked at all the attributes required and then made this command to add everything to the database. Then, as I worked on the assignment, I found out that some keys are supposed to auto increment. To add this functionality, I changed my first task to account for this. The command provided below is the only thing you need to run to be able to use the python program
Note: You need to import the books also!
Note: The name of the database needs to be “book_store”

```
CREATE TABLE books (
  isbn CHAR(10) PRIMARY KEY,
  author VARCHAR(100) NOT NULL,
  title VARCHAR(128) NOT NULL,
  price FLOAT NOT NULL,
  subject VARCHAR(30) NOT NULL
);
CREATE TABLE members (
  userid INT AUTO_INCREMENT,
  fname VARCHAR(20) NOT NULL,
  lname VARCHAR(20) NOT NULL,
  address VARCHAR(50) NOT NULL,
  city VARCHAR(30) NOT NULL,
  state VARCHAR(20) NOT NULL,
  zip INT NOT NULL,
  phone VARCHAR(12),
  email VARCHAR(40),
  password VARCHAR(20),
  creditcardtype VARCHAR(10),
  creditcardnumber CHAR(16),
  PRIMARY KEY (userid)
);
CREATE TABLE orders (
  userid INT NOT NULL,
  ono INT AUTO_INCREMENT PRIMARY KEY,
  received DATE,
  shipped DATE,
  shipAddress VARCHAR(50),
  shipCity VARCHAR(30),
  shipState VARCHAR(20),
  shipZip INT,
  FOREIGN KEY (userid) REFERENCES Members(userid)
);
CREATE TABLE odetails(
  ono INT NOT NULL,
  isbn CHAR(10) NOT NULL,
  qty INT NOT NULL,
  price FLOAT NOT NULL,
  PRIMARY KEY (ono, isbn),
  FOREIGN KEY (ono) REFERENCES Orders(ono),
  FOREIGN KEY (isbn) REFERENCES Books(isbn)
);
CREATE TABLE cart (
  userid INT NOT NULL,
  isbn CHAR(10) NOT NULL,
  qty INT NOT NULL,
  PRIMARY KEY (userid, isbn),
  FOREIGN KEY (userid) REFERENCES Members(userid),
  FOREIGN KEY (isbn) REFERENCES Books(isbn));
```

Task 2:

The python program is provided in the download. You run “Assign3.py” to use the menu. This program connects to the database through “localhost " with "root " as the username. The password is blank.

I hope that I interpreted the database correctly and used the right attributes, but in case the program fails to run with your database, I have provided my database as an export. Using this, you could check which attributes/names are wrong. Also, you will be able to run the program and check that every functionality is implemented correctly.

Note: The password field is hidden! You are still typing, it just doesn’t show up for security reasons.

Note: The sql file that i provided is not required to run the python program! It is supposed to be imported into a database if the database does not exist!