book table

```
CREATE TABLE book(
   ISBN INTEGER,
   title VARCHAR(100),
   authors VARCHAR(100),
   publisher VARCHAR(100),
   year_pub INTEGER,
   copies INTEGER,
   price REAL,
   format VARCHAR(9) CHECK(format="hardcopy" OR format="softcopy"),
   subject VARCHAR(50),
   PRIMARY KEY(ISBN)
)
```

customer table

```
CREATE TABLE customer(
name VARCHAR(100),
user VARCHAR(20),
password VARCHAR(20),
card_no VARCHAR(16),
address VARCHAR(100),
phone_no INTEGER,
PRIMARY KEY(user)
)
```

keyword table

```
CREATE TABLE keyword(
tag VARCHAR(100),
PRIMARY KEY(tag)
)
```

invoice table

```
CREATE TABLE invoice(
   number INTEGER,
   date DATE,
   status VARCHAR(50),
   PRIMARY KEY(number)
)
```

tag relation

```
CREATE TABLE tag(
   ISBN INTEGER,
   tag VARCHAR(100),
   PRIMARY KEY (ISBN, tag)
   FOREIGN KEY (ISBN) REFERENCES book
   FOREIGN KEY (tag) REFERENCES keyword
)
```

order relation

```
CREATE TABLE order(
number INTEGER,
user VARCHAR(20),
PRIMARY KEY(user, number),
FOREIGN KEY (user) REFERENCES customer,
FOREIGN KEY (number) REFERENCES invoice
)
```

content relation

```
CREATE TABLE content(
number INTEGER,
ISBN INTEGER,
copies INTEGER,
PRIMARY KEY (number, ISBN),
FOREIGN KEY (number) REFERENCES invoice,
FOREIGN KEY (ISBN) REFERENCES book
)
```

feedback relation

```
CREATE TABLE feedback(
   ISBN INTEGER,
   user VARCHAR(20),
   comment TEXT,
   date DATE,
   score INTEGER,
   PRIMARY KEY (ISBN, user),
   FOREIGN KEY (ISBN) REFERENCES book,
   FOREIGN KEY (user) REFERENCES customer
)
```

rating relation

```
CREATE TABLE rating(
   ISBN INTEGER,
   user_feedback VARCHAR(20),
   user_rate VARCHAR(20),
   rate INTEGER,
   PRIMARY KEY((ISBN, user_feedback), user_rate),
   FOREIGN KEY (ISBN) REFERENCES book,
   FOREIGN KEY (user_feedback) REFERENCES customer,
   FOREIGN KEY (user_rate) REFERENCES customer
)
```