## **Table Creation**

## 1) AUTHOR

# CREATE TABLE AUTHOR

(author\_IDVARCHAR(15)NOT NULL,book\_IDINTEGER(4)NOT NULL,FnameVARCHAR(15)NOT NULL,LnameVARCHAR(15)NOT NULL,

PRIMARY KEY(authod\_ID) UNIQUE(authod\_ID) );

#### 2)BOOK

#### **CREATE TABLE BOOK**

(book_ID	VARCHAR(15)	NOT NULL,
author_ID	VARCHAR(15)	NOT NULL,
publisher_ID	VARCHAR(15)	NOT NULL,

customer\_rating INT,

ISBN VARCHAR(13),

Price DECIMAL(3,2) NOT NULL,

Condition VARCHAR(10),

Title VARCHAR(50) NOT NULL,
Category VARCHAR(20) NOT NULL,
Year INT NOT NULL,

PRIMARY KEY(book\_ID),

FOREIGN KEY(author\_ID) REFERENCES AUTHOR(author\_ID),

FOREIGN KEY(publisher\_ID) REFERENCES PUBLISHER(publisher\_ID) );

## 3)CUSTOMER

#### **CREATE TABLE CUSTOMER**

PRIMARY KEY(customer\_ID));

(customer_ID	VARCHAR(15)	NOT NULL,
Fname	VARCHAR(15)	NOT NULL,
Lname	VARCHAR(15)	NOT NULL,
street1	VARCHAR(30)	NOT NULL,
street2	VARCHAR(30),	
city	VARCHAR(20)	NOT NULL,
country	VARCHAR(15)	NOT NULL,
postal	VARCHAR(10)	NOT NULL,
email	VARCHAR(18),	

## 4)EMPLOYEE

## **CREATE TABLE EMPLOYEE**

(employee_ID	VARCHAR(15)	NOT NULL,
store_ID	VARCHAR(15)	NOT NULL,
hours_worked	REAL	NOT NULL,
Fname	VARCHAR(15)	NOT NULL,
Lname	VARCHAR(15)	NOT NULL,
Email	VARCHAR(30),	
Phone	VARCHAR(15),	
Wage	DECIMAL(2.2)	NOT NULL.

PRIMARY KEY(employee\_ID),

FOREIGN KEY(store\_ID) REFERENCES STORE(store\_ID) );

## 5) ORDER

## CREATE TABLE ORDER

(order_ID	VARCHAR(15)	NOT NULL,
customer_ID	VARCHAR(15)	NOT NULL,
date	DATE	NOT NULL,
shipping	DECIMAL(3,2)	NOT NULL,
total	DECIMAL(5,2)	NOT NULL,

PRIMARY KEY(order\_ID),

FOREIGN KEY(customer\_ID) REFERENCES CUSTOMER(customer\_ID) );

## 6) PUBLISHER

## CREATE TABLE PUBLISHER

(publisher_ID	VARCHAR(15)	NOT NULL,
book_ID	VARCHAR(15)	NOT NULL,
publisher_name	VARCHAR(30)	NOT NULL,
PRIMARY KEY(publ	isher_ID) );	

## 7) SHIPPING\_ADDRESS

# CREATE TABLE SHIPPING\_ADDRESS

(username	VARCHAR(20)	NOT NULL,
Fname	VARCHAR(15)	NOT NULL,
Lname	VARCHAR(15)	NOT NULL,
street1	VARCHAR(30)	NOT NULL,
street2	VARCHAR(30),	
city	VARCHAR(20)	NOT NULL,
country	VARCHAR(15)	NOT NULL,
postal	VARCHAR(10)	NOT NULL,
DRIMARY KEVIUS	ername)	

PRIMARY KEY(username),

FOREIGN KEY(username) REFERENCES USER(username) );

#### 8) STORE

#### **CREATE TABLE STORE**

```
VARCHAR(15)
                                      NOT NULL,
(store_ID
street1
                   VARCHAR(30)
                                      NOT NULL,
street2
                   VARCHAR(30),
city
                   VARCHAR(20)
                                      NOT NULL,
country
                   VARCHAR(15)
                                      NOT NULL,
postal
                   VARCHAR(10)
                                      NOT NULL,
                   VARCHAR(15)
                                      NOT NULL,
manager_ID
```

PRIMARY KEY(store\_ID),

FOREIGN KEY(manager\_ID) REFERENCES EMPLOYEE(employee\_ID) );

#### 9) STORED\_IN

### CREATE TABLE STORED IN

(warehouse\_ID VARCHAR(15) NOT NULL, book\_ID VARCHAR(15) NOT NULL,

FOREIGN KEY(warehouse ID) REFERENCES WAREHOUSE(warehouse ID),

FOREIGN KEY(book\_ID) REFERENCES BOOK(book\_ID) );

#### 10) USER

### **CREATE TABLE USER**

(username VARCHAR(20) NOT NULL, VARCHAR(30) NOT NULL, password VARCHAR(15) customer\_ID NOT NULL,

PRIMARY KEY(username),

FOREIGN KEY(customer\_ID) REFERENCES CUSTOMER(customer\_ID));

#### 11) WAREHOUSE

## **CREATE TABLE WAREHOUSE**

(warehouse_ID	VARCHAR(15)	NOT NULL,
book_ID	VARCHAR(15)	NOT NULL,
street1	VARCHAR(30)	NOT NULL,
street2	VARCHAR(30),	
city	VARCHAR(20)	NOT NULL,
country	VARCHAR(15)	NOT NULL,
postal	VARCHAR(10)	NOT NULL,
PRIMARY KEY(warehouse_ID),		
<pre>FOREIGN KEY(book_ID) REFERENCES BOOK(book_ID) );</pre>		

## 12) WRITES

# **CREATE TABLE WRITES**

(publisher\_ID VARCHAR(15) NOT NULL, book\_ID VARCHAR(15) NOT NULL,

FOREIGN KEY(publisher\_ID) REFERENCES PUBLISHER(publisher\_ID),

FOREIGN KEY(book\_ID) REFERENCES BOOK(book\_ID) );

#### 13)BUYS

## **CREATE TABLE BUYS**

(customer\_ID INTEGER(4) NOT NULL, book\_ID INTEGER(4) NOT NULL,

order\_ID INTEGER NOT NULL DEFAULT 0);

#### 14)HAS

## **CREATE TABLE HAS**

(user\_ID VARCHAR(20) NOT NULL,
username VARCHAR(20) NOT NULL,
FOREIGN KEY(user\_ID) REFERENCES USER(username),
FOREIGN KEY(username) REFERENCES SHIPPING\_ADDRESS(username) );

#### 15) IN

#### **CREATE TABLE IN**

(book\_ID VARCHAR(15) NOT NULL, order\_ID VARCHAR(15) NOT NULL, FOREIGN KEY(book\_ID) REFERENCES BOOK(book\_ID) );