**USER\_TABLE**

CREATE TABLE USER\_TABLE

(

username VARCHAR2(50) NOT NULL PRIMARY KEY,

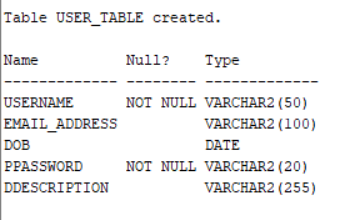
email\_address VARCHAR2(100),

DOB DATE,

ppassword VARCHAR2(20) NOT NULL,

ddescription VARCHAR2(255)

);



**USER\_PHN\_NO\_TABLE**

CREATE TABLE USER\_PHN\_NO\_TABLE

(

username VARCHAR2(50) NOT NULL,

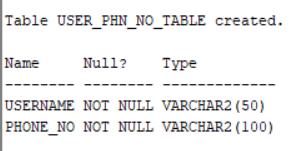
phone\_no VARCHAR2(100) NOT NULL,

PRIMARY KEY(username, phone\_no),

CONSTRAINT FK\_USER\_PHN\_NOusername FOREIGN KEY

(username) REFERENCES USER\_TABLE (username) ON DELETE CASCADE

);



**CUSTOMER\_TABLE**

CREATE TABLE CUSTOMER\_TABLE

(

username VARCHAR2(50) NOT NULL PRIMARY KEY,

street VARCHAR2(100) NOT NULL,

city VARCHAR2(100) NOT NULL,

sstate VARCHAR2(100) NOT NULL,

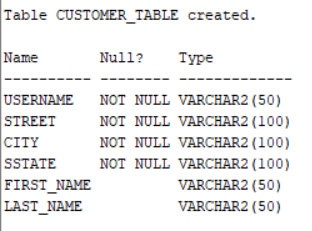
first\_name VARCHAR2(50),

last\_name VARCHAR2(50),

CONSTRAINT FK\_CUSTOMERusername FOREIGN KEY

(username) REFERENCES USER\_TABLE (username) ON DELETE CASCADE

);



**ADMINISTRATOR\_TABLE**

CREATE TABLE ADMINISTRATOR\_TABLE

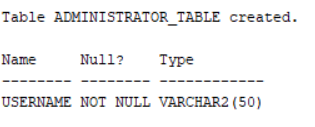
(

username VARCHAR2(50) NOT NULL PRIMARY KEY,

CONSTRAINT FK\_ADMINISTRATORusername FOREIGN KEY

(username) REFERENCES USER\_TABLE (username) ON DELETE CASCADE

);



**ORDERS\_TABLE**

CREATE TABLE ORDERS\_TABLE

(

order\_id NUMBER(10, 0) NOT NULL PRIMARY KEY,

invoice\_no NUMBER(10, 0) NOT NULL UNIQUE,

order\_date TIMESTAMP DEFAULT CURRENT\_DATE NOT NULL,

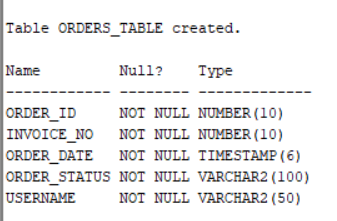
order\_status VARCHAR2(100) NOT NULL,

username VARCHAR2(50) NOT NULL,

CONSTRAINT FK\_ORDERSusername FOREIGN KEY

(username) REFERENCES CUSTOMER\_TABLE (username) ON DELETE CASCADE

);



**TRACKING\_DETAILS\_TABLE**

CREATE TABLE TRACKING\_DETAILS\_TABLE

(

tracking\_id NUMBER(10, 0) NOT NULL,

order\_id NUMBER(10, 0) NOT NULL,

courier\_name VARCHAR2(100) NOT NULL,

update\_time TIMESTAMP DEFAULT CURRENT\_DATE NOT NULL,

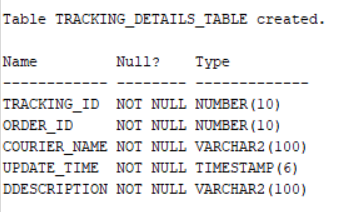
ddescription VARCHAR2(100) NOT NULL,

PRIMARY KEY(tracking\_id, order\_id),

CONSTRAINT FK\_TRACKING\_DETAILSorder\_id FOREIGN KEY

(order\_id) REFERENCES ORDERS\_TABLE (order\_id) ON DELETE CASCADE

);



**ORDER\_DETAILS\_TABLE**

CREATE TABLE ORDER\_DETAILS\_TABLE

(

order\_details\_id NUMBER(10, 0) NOT NULL UNIQUE,

order\_id NUMBER(10, 0) NOT NULL,

discount DECIMAL(5, 2) DEFAULT 0 CHECK (discount >= 0 AND discount <= 100) NOT NULL,

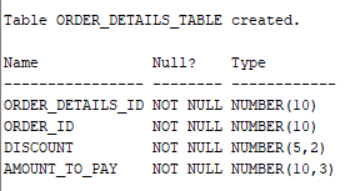
amount\_to\_pay NUMBER(10, 3) DEFAULT 0 NOT NULL,

PRIMARY KEY(order\_details\_id, order\_id),

CONSTRAINT FK\_ORDER\_DETAILS\_TABLEorder\_id FOREIGN KEY

(order\_id) REFERENCES ORDERS\_TABLE (order\_id) ON DELETE CASCADE

);



**AUTHOR\_TABLE**

CREATE TABLE AUTHOR\_TABLE

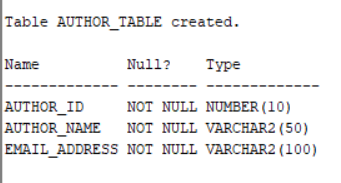
(

author\_id NUMBER(10, 0) NOT NULL PRIMARY KEY,

author\_name VARCHAR2(50) NOT NULL,

email\_address VARCHAR2(100) NOT NULL

);



**PUBLISHER\_TABLE**

CREATE TABLE PUBLISHER\_TABLE

(

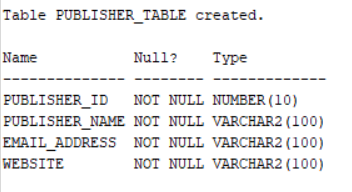
publisher\_id NUMBER(10, 0) NOT NULL PRIMARY KEY,

publisher\_name VARCHAR2(100) NOT NULL,

email\_address VARCHAR2(100) NOT NULL,

website VARCHAR2(100) NOT NULL

);



**BOOK\_TABLE**

CREATE TABLE BOOK\_TABLE

(

book\_ISBN NUMBER(10, 0) NOT NULL PRIMARY KEY,

book\_title VARCHAR2(255),

eedition NUMBER(2, 0),

price NUMBER(7, 3) NOT NULL,

EOQ NUMBER(7, 3),

author\_id NUMBER(10, 0) NOT NULL,

publisher\_id NUMBER(10, 0) NOT NULL,

release\_date DATE,

page\_count NUMBER(4, 0),

dimensions VARCHAR2(50),

quantity\_in\_stock NUMBER(6, 0) DEFAULT 0 CHECK (quantity\_in\_stock >= 0) NOT NULL,

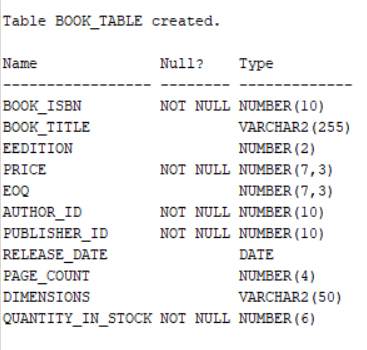
CONSTRAINT FK\_BOOKauthor\_id FOREIGN KEY

(author\_id) REFERENCES AUTHOR\_TABLE (author\_id) ON DELETE CASCADE,

CONSTRAINT FK\_BOOKpublisher\_id FOREIGN KEY

(publisher\_id) REFERENCES PUBLISHER\_TABLE (publisher\_id) ON DELETE CASCADE

);



**BOOK\_INSTANCE\_TABLE**

CREATE TABLE BOOK\_INSTANCE\_TABLE

(

copy\_instance NUMBER(10, 0) NOT NULL,

book\_ISBN NUMBER(10, 0) NOT NULL,

quantity NUMBER(5, 0) NOT NULL,

order\_details\_id NUMBER(10, 0) NOT NULL,

order\_id NUMBER(10, 0) NOT NULL,

PRIMARY KEY(copy\_instance, book\_ISBN),

CONSTRAINT FK\_BOOK\_INSTANCEbook\_ISBN FOREIGN KEY

(book\_ISBN) REFERENCES BOOK\_TABLE (book\_ISBN) ON DELETE CASCADE,

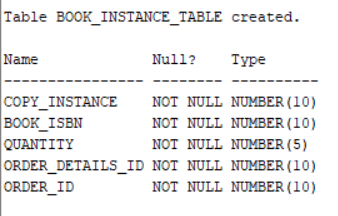
CONSTRAINT FK\_BOOK\_INSTANCEorder\_details\_id FOREIGN KEY

(order\_details\_id) REFERENCES ORDER\_DETAILS\_TABLE (order\_details\_id) ON DELETE CASCADE,

CONSTRAINT FK\_BOOK\_INSTANCEorder\_id FOREIGN KEY

(order\_id) REFERENCES ORDERS\_TABLE (order\_id) ON DELETE CASCADE

);



**CATEGORY\_TABLE**

CREATE TABLE CATEGORY\_TABLE

(

category\_id NUMBER(10, 0) NOT NULL PRIMARY KEY,

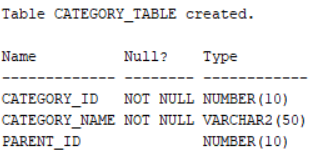
category\_name VARCHAR2(50) NOT NULL,

parent\_id NUMBER(10, 0),

CONSTRAINT FK\_CATEGORYparent\_id FOREIGN KEY

(parent\_id) REFERENCES CATEGORY\_TABLE (category\_id) ON DELETE SET NULL

);



**LANGUAGE\_TABLE**

CREATE TABLE LANGUAGE\_TABLE

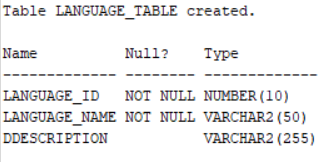
(

language\_id NUMBER(10, 0) NOT NULL PRIMARY KEY,

language\_name VARCHAR2(50) NOT NULL,

ddescription VARCHAR2(255)

);



**BINDING\_TABLE**

CREATE TABLE BINDING\_TABLE

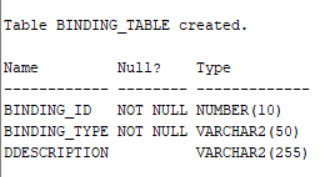
(

binding\_id NUMBER(10, 0) NOT NULL PRIMARY KEY,

binding\_type VARCHAR2(50) NOT NULL,

ddescription VARCHAR2(255)

);



**BOOK\_CATEGORY\_TABLE**

CREATE TABLE BOOK\_CATEGORY\_TABLE

(

category\_id NUMBER(10, 0) NOT NULL,

book\_ISBN NUMBER(10, 0) NOT NULL,

PRIMARY KEY(category\_id, book\_ISBN),

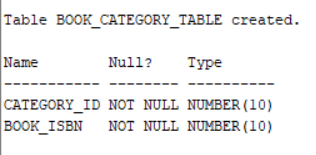
CONSTRAINT FK\_BOOK\_CATEGORY\_TABLEcategory\_id FOREIGN KEY

(category\_id) REFERENCES CATEGORY\_TABLE (category\_id) ON DELETE CASCADE,

CONSTRAINT FK\_BOOK\_CATEGORY\_TABLEbook\_ISBN FOREIGN KEY

(book\_ISBN) REFERENCES BOOK\_TABLE (book\_ISBN) ON DELETE CASCADE

);



**BOOK\_LANGUAGE\_TABLE**

CREATE TABLE BOOK\_LANGUAGE\_TABLE

(

language\_id NUMBER(10, 0) NOT NULL,

book\_ISBN NUMBER(10, 0) NOT NULL,

PRIMARY KEY(language\_id, book\_ISBN),

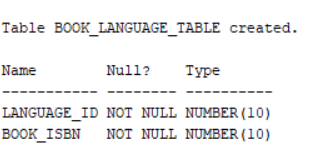
CONSTRAINT FK\_BOOK\_LANGUAGE\_TABLElanguage\_id FOREIGN KEY

(language\_id) REFERENCES LANGUAGE\_TABLE (language\_id) ON DELETE CASCADE,

CONSTRAINT FK\_BOOK\_LANGUAGE\_TABLEbook\_ISBN FOREIGN KEY

(book\_ISBN) REFERENCES BOOK\_TABLE (book\_ISBN) ON DELETE CASCADE

);



**BOOK\_BINDING\_TABLE**

CREATE TABLE BOOK\_BINDING\_TABLE

(

binding\_id NUMBER(10, 0) NOT NULL,

book\_ISBN NUMBER(10, 0) NOT NULL,

PRIMARY KEY(binding\_id, book\_ISBN),

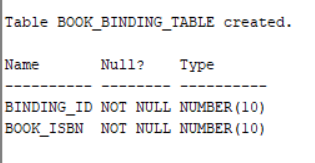
CONSTRAINT FK\_BOOK\_BINDING\_TABLEbinding\_id FOREIGN KEY

(binding\_id) REFERENCES BINDING\_TABLE (binding\_id) ON DELETE CASCADE,

CONSTRAINT FK\_BOOK\_BINDING\_TABLEbook\_ISBN FOREIGN KEY

(book\_ISBN) REFERENCES BOOK\_TABLE (book\_ISBN) ON DELETE CASCADE

);



**SUPPLIER\_TABLE**

CREATE TABLE SUPPLIER\_TABLE

(

supplier\_id NUMBER(10, 0) NOT NULL PRIMARY KEY,

email\_address VARCHAR2(100) NOT NULL,

supplier\_name VARCHAR2(100) NOT NULL,

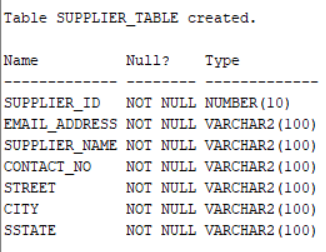
contact\_no VARCHAR2(100) NOT NULL,

street VARCHAR2(100) NOT NULL,

city VARCHAR2(100) NOT NULL,

sstate VARCHAR2(100) NOT NULL

);



**SUPPLIES\_TO\_TABLE**

CREATE TABLE SUPPLIES\_TO\_TABLE

(

publisher\_id NUMBER(10, 0) NOT NULL,

supplier\_id NUMBER(10, 0) NOT NULL,

book\_ISBN NUMBER(10, 0) NOT NULL UNIQUE,

amount NUMBER(6, 0) NOT NULL CHECK (amount >= 0),

PRIMARY KEY(publisher\_id, supplier\_id),

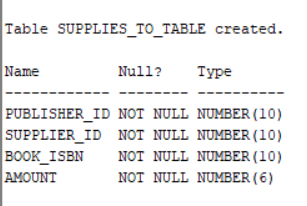
CONSTRAINT FK\_SUPPLIES\_TO\_TABLEpublisher\_id FOREIGN KEY

(publisher\_id) REFERENCES PUBLISHER\_TABLE (publisher\_id) ON DELETE CASCADE,

CONSTRAINT FK\_SUPPLIES\_TO\_TABLEsupplier\_id FOREIGN KEY

(supplier\_id) REFERENCES SUPPLIER\_TABLE (supplier\_id) ON DELETE CASCADE

);



**WAREHOUSE\_TABLE**

CREATE TABLE WAREHOUSE\_TABLE

(

warehouse\_id NUMBER(10, 0) NOT NULL PRIMARY KEY,

warehouse\_name VARCHAR2(100) NOT NULL,

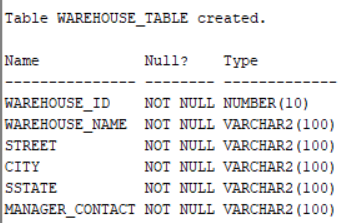
street VARCHAR2(100) NOT NULL,

city VARCHAR2(100) NOT NULL,

sstate VARCHAR2(100) NOT NULL,

manager\_contact VARCHAR2(100) NOT NULL

);



**PROVIDES\_BOOKS\_TABLE**

CREATE TABLE PROVIDES\_BOOKS\_TABLE

(

supplier\_id NUMBER(10, 0) NOT NULL,

warehouse\_id NUMBER(10, 0) NOT NULL,

book\_ISBN NUMBER(10, 0) NOT NULL UNIQUE,

amount NUMBER(6, 0) NOT NULL CHECK (amount >= 0),

PRIMARY KEY(supplier\_id, warehouse\_id),

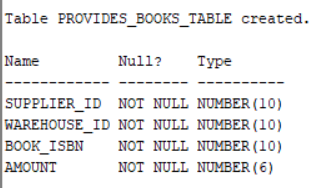
CONSTRAINT FK\_PROVIDES\_BOOKS\_TABLEsupplier\_id FOREIGN KEY

(supplier\_id) REFERENCES SUPPLIER\_TABLE (supplier\_id) ON DELETE CASCADE,

CONSTRAINT FK\_PROVIDES\_BOOKS\_TABLEwarehouse\_id FOREIGN KEY

(warehouse\_id) REFERENCES WAREHOUSE\_TABLE (warehouse\_id) ON DELETE CASCADE

);



**BOOKS\_WITH\_SUPPLIERS\_TABLE**

CREATE TABLE BOOKS\_WITH\_SUPPLIERS\_TABLE

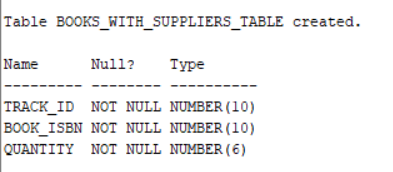
(

track\_id NUMBER(10, 0) NOT NULL PRIMARY KEY,

book\_ISBN NUMBER(10, 0) NOT NULL UNIQUE,

quantity NUMBER(6, 0) DEFAULT 0 CHECK (quantity >= 0) NOT NULL

);



**HAVE\_BOOKS\_TABLE**

CREATE TABLE HAVE\_BOOKS\_TABLE

(

supplier\_id NUMBER(10, 0) NOT NULL,

track\_id NUMBER(10, 0) NOT NULL,

PRIMARY KEY(supplier\_id, track\_id),

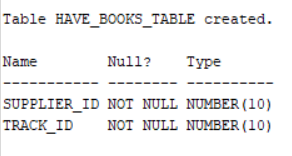
CONSTRAINT FK\_HAVE\_BOOKS\_TABLEsupplier\_id FOREIGN KEY

(supplier\_id) REFERENCES SUPPLIER\_TABLE (supplier\_id) ON DELETE CASCADE,

CONSTRAINT FK\_HAVE\_BOOKS\_TABLEtrack\_id FOREIGN KEY

(track\_id) REFERENCES BOOKS\_WITH\_SUPPLIERS\_TABLE (track\_id) ON DELETE CASCADE

);



**BOOKS\_IN\_WAREHOUSE\_TABLE**

CREATE TABLE BOOKS\_IN\_WAREHOUSE\_TABLE

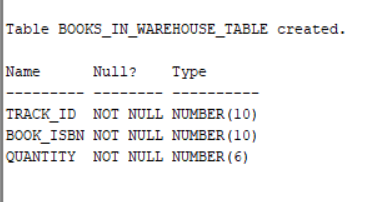
(

track\_id NUMBER(10, 0) NOT NULL PRIMARY KEY,

book\_ISBN NUMBER(10, 0) NOT NULL,

quantity NUMBER(6, 0) DEFAULT 0 CHECK (quantity >= 0) NOT NULL

);



**CONTAINS\_BOOKS\_TABLE**

CREATE TABLE CONTAINS\_BOOKS\_TABLE

(

warehouse\_id NUMBER(10, 0) NOT NULL,

track\_id NUMBER(10, 0) NOT NULL,

PRIMARY KEY(warehouse\_id, track\_id),

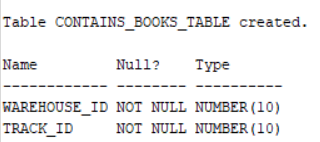
CONSTRAINT FK\_CONTAINS\_BOOKS\_TABLEwarehouse\_id FOREIGN KEY

(warehouse\_id) REFERENCES WAREHOUSE\_TABLE (warehouse\_id) ON DELETE CASCADE,

CONSTRAINT FK\_CONTAINS\_BOOKS\_TABLEbook\_ISBN FOREIGN KEY

(track\_id) REFERENCES BOOKS\_IN\_WAREHOUSE\_TABLE (track\_id) ON DELETE CASCADE

);



**USER\_INTERACTION\_TABLE**

CREATE TABLE USER\_INTERACTION\_TABLE

(

username VARCHAR2(50) NOT NULL,

book\_ISBN NUMBER(10, 0) NOT NULL,

rating NUMBER(1, 0),

upvote CHAR(1),

downvote CHAR(1),

PRIMARY KEY(username, book\_ISBN),

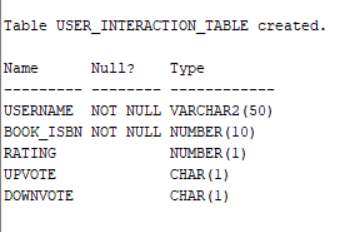
CONSTRAINT FK\_USER\_INTERACTION\_TABLEusername FOREIGN KEY

(username) REFERENCES CUSTOMER\_TABLE (username) ON DELETE CASCADE,

CONSTRAINT FK\_USER\_INTERACTION\_TABLEbook\_ISBN FOREIGN KEY

(book\_ISBN) REFERENCES BOOK\_TABLE (book\_ISBN) ON DELETE CASCADE

);



**FAVOURITES\_TABLE**

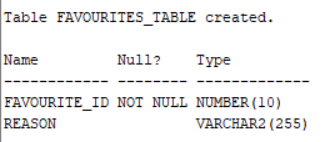
CREATE TABLE FAVOURITES\_TABLE

(

favourite\_id NUMBER(10, 0) NOT NULL PRIMARY KEY,

reason VARCHAR2(255)

);



**USER\_FAVOURITE\_TABLE**

CREATE TABLE USER\_FAVOURITE\_TABLE

(

username VARCHAR2(50) NOT NULL,

book\_ISBN NUMBER(10, 0) NOT NULL,

favourite\_id NUMBER(10, 0) NOT NULL,

PRIMARY KEY(username, book\_ISBN, favourite\_id),

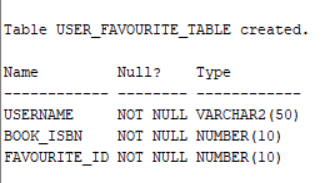
CONSTRAINT FK\_USER\_FAVOURITE\_TABLEusernamebook\_ISBN FOREIGN KEY

(username, book\_ISBN) REFERENCES USER\_INTERACTION\_TABLE (username, book\_ISBN) ON DELETE CASCADE,

CONSTRAINT FK\_USER\_FAVOURITE\_TABLEfavourite\_id FOREIGN KEY

(favourite\_id) REFERENCES FAVOURITES\_TABLE (favourite\_id) ON DELETE CASCADE

);



**COMMENTS\_TABLE**

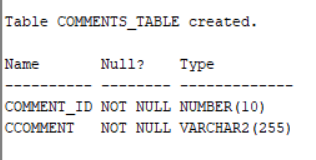
CREATE TABLE COMMENTS\_TABLE

(

comment\_id NUMBER(10, 0) NOT NULL PRIMARY KEY,

ccomment VARCHAR2(255) NOT NULL

);



**USER\_COMMENT\_TABLE**

CREATE TABLE USER\_COMMENT\_TABLE

(

username VARCHAR2(50) NOT NULL,

book\_ISBN NUMBER(10, 0) NOT NULL,

comment\_id NUMBER(10, 0) NOT NULL,

PRIMARY KEY(username, book\_ISBN, comment\_id),

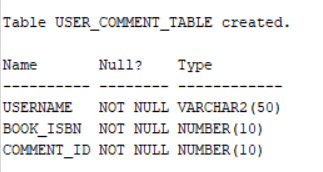
CONSTRAINT FK\_USER\_COMMENT\_TABLEusernamebook\_ISBN FOREIGN KEY

(username, book\_ISBN) REFERENCES USER\_INTERACTION\_TABLE (username, book\_ISBN) ON DELETE CASCADE,

CONSTRAINT FK\_USER\_COMMENT\_TABLEcomment\_id FOREIGN KEY

(comment\_id) REFERENCES COMMENTS\_TABLE (comment\_id) ON DELETE CASCADE

);



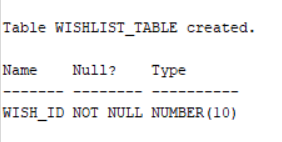
**WISHLIST\_TABLE**

CREATE TABLE WISHLIST\_TABLE

(

wish\_id NUMBER(10, 0) NOT NULL PRIMARY KEY

);



**USER\_WISHLIST\_TABLE**

CREATE TABLE USER\_WISHLIST\_TABLE

(

username VARCHAR2(50) NOT NULL,

book\_ISBN NUMBER(10, 0) NOT NULL,

wish\_id NUMBER(10, 0) NOT NULL,

PRIMARY KEY(username, book\_ISBN, wish\_id),

CONSTRAINT FK\_USER\_WISHLIST\_TABLEusernamebook\_ISBN FOREIGN KEY

(username, book\_ISBN) REFERENCES USER\_INTERACTION\_TABLE (username, book\_ISBN) ON DELETE CASCADE,

CONSTRAINT FK\_USER\_WISHLIST\_TABLEwish\_id FOREIGN KEY

(wish\_id) REFERENCES WISHLIST\_TABLE (wish\_id) ON DELETE CASCADE

);

