(c)

1. When adding a new book, due to the restrictions and Referential Integrity Constraints, you must insert the related values in table BOOK, table Author, table Written\_by, table PUBLISHER , table STORES, table ITEM.

**SQL syntax:**

INSERT INTO BOOK(barcode, book\_category, ISBN)

VALUES (CHAR(12), VARCHAR(20), CHAR(22));

INSERT INTO WRITTEN\_BY (ISBN, a\_ID)

VALUES (CHAR(22), VARCHAR(20));

INSERT INTO STORES (store\_ID, barcode ,inventory,sold)

VALUES (CHAR(10), CHAR(12),VARCHAR(20),INT);

INSERT INTO ITEM (barcode, item\_name , aisle, bin, price, publisher\_name)

VALUES (CHAR(12), VARCHAR(50),INT,INT,FLOAT(5,2), VARCHAR(30));

INSERT INTO AUTHOR\_ARTIST (a\_ID,firstname,last\_name,)

VALUES (VARCHAR(20), VARCHAR(15), VARCHAR(15));

**Example:**

INSERT INTO BOOK(barcode, book\_category, ISBN)

VALUES (‘602978009201’, ‘Reference’, ‘743222001’);

INSERT INTO WRITTEN\_BY (ISBN, a\_ID)

VALUES (‘743222001’, ‘A23542521’);

INSERT INTO STORES (store\_ID,barcode ,inventory,sold)

VALUES (‘6611445639’, ‘602978009201’, ‘14’ , 1);

INSERT INTO ITEM (barcode, item\_name, aisle, bin, price, publisher\_name)

VALUES (‘602978009201’, ‘special’, 11, 11, 51.11, ‘Sybex’);

INSERT INTO AUTHOR\_ARTIST (a\_ID,firstname,last\_name,)

VALUES (‘A23542521’, ‘Jackson’, ‘Wilshereman’);

2. When adding a new author, due to the restrictions and Referential Integrity Constraints, you must insert the related values in table BOOK, table Author, table Written\_by, table PUBLISHER, table STORES, table ITEM.

**SQL syntax:**

INSERT INTO BOOK(barcode, book\_category, ISBN)

VALUES (CHAR(12), VARCHAR(20), CHAR(22));

INSERT INTO WRITTEN\_BY (ISBN, a\_ID)

VALUES (CHAR(22), VARCHAR(20));

INSERT INTO STORES (store\_ID,barcode ,inventory,sold)

VALUES (CHAR(10), CHAR(12),VARCHAR(20),INT);

INSERT INTO ITEM (barcode, item\_name , aisle, bin, price, publisher\_name)

VALUES (CHAR(12), VARCHAR(50),INT,INT,FLOAT(5,2), VARCHAR(30));

INSERT INTO AUTHOR\_ARTIST (a\_ID,firstname,last\_name,)

VALUES (VARCHAR(20), VARCHAR(15), VARCHAR(15));

**Example:**

INSERT INTO BOOK(barcode, book\_category, ISBN)

VALUES (‘602978009201’, ‘Reference’, ‘743222001’);

INSERT INTO WRITTEN\_BY (ISBN, a\_ID)

VALUES (‘743222001’, ‘A23542521’);

INSERT INTO STORES (store\_ID,barcode ,inventory,sold)

VALUES (‘6611445639’, ‘602978009201’, ‘14’ , 1);

INSERT INTO ITEM (barcode, item\_name, aisle, bin, price, publisher\_name)

VALUES (‘602978009201’, ‘special’, 11, 11, 51.11, ‘Sybex’);

INSERT INTO AUTHOR\_ARTIST (a\_ID,firstname,last\_name,)

VALUES (‘A23542521’, ‘Jackson’, ‘Wilshereman’);

3.When adding a new publisher, you must insert the related values in table PUBLISHER

**SQL syntax:**

INSERT INTO PUBLISHER (publisher\_name)

VALUES (VARCHAR(30));

**Example :**

INSERT INTO PUBLISHER (publisher\_name)

VALUES (‘strange’);

4.When adding a new customer, you must insert the related values in table Customer.

**SQL syntax:**

INSERT INTO Customer (customer\_ID, first\_name,last\_name,email)

VALUES (CHAR(10),VARCHAR(15), VARCHAR(15), VARCHAR(30));

**Example:**

INSERT INTO Customer (customer\_ID, first\_name,last\_name,email)

VALUES (‘7938024831’, ‘An’, ‘allen’, ‘allen@gmail.com’);

(d)

1.When deleting a book, due to the restrictions and Referential Integrity Constraints, you must delete the related values in table BOOK, table Written\_by,, table STORES, table ITEM, tabke Author

SQL syntax:

DELETE FROM BOOK

WHERE barcode = CHAR(12) AND

book\_category = VARCHAR(20) AND

ISBN = CHAR(22) ;

DELETE FROM WRITTEN\_BY

WHERE ISBN = CHAR(22) AND

a\_ID = VARCHAR(20);

DELETE FROM STORES

WHERE store\_ID = char(10) AND

barcode = char(12) AND

inventory = varchar(20) AND

sold = int;

DELETE FROM ITEM

WHERE barcode =char (12) AND

item\_name =varchar(50) AND

aisle =int AND

bin =int AND

price= float(5, 2) AND

publisher\_name =varchar(30);

**Example:**

DELETE FROM BOOK

WHERE barcode = ‘602978009201’ AND

book\_category = ‘Reference’ AND

ISBN = ‘743222001’;

DELETE FROM WRITTEN\_BY

WHERE ISBN = ‘743222001’AND

a\_ID =‘A23542521’;

DELETE FROM STORES

WHERE store\_ID = ‘6611445639’AND

barcode = ‘602978009201’ AND

inventory = ‘14’ AND

sold = 1;

DELETE FROM ITEM

WHERE barcode =‘602978009201’AND

item\_name = ‘special’AND

aisle =11 AND

bin =11 AND

price= 51.11 AND

publisher\_name =‘Sybex’;

DELETE FROM AUTHOR\_ARTIST

WHERE a\_ID =‘A23542521’AND

firstname =‘Jackson’AND

last\_name = ‘Wilshereman’;

2.When deleting a author, due to the restrictions and Referential Integrity Constraints, you must delete the related values in table BOOK, table Author, table Written\_by, table table STORES, table ITEM.

SQL syntax:

DELETE FROM BOOK

WHERE barcode = CHAR(12) AND

book\_category = VARCHAR(20) AND

ISBN = CHAR(22) ;

DELETE FROM WRITTEN\_BY

WHERE ISBN = CHAR(22) AND

a\_ID = VARCHAR(20);

DELETE FROM STORES

WHERE store\_ID = char(10) AND

barcode = char(12) AND

inventory = varchar(20) AND

sold = int;

DELETE FROM ITEM

WHERE barcode =char (12) AND

item\_name =varchar(50) AND

aisle =int AND

bin =int AND

price= float(5, 2) AND

publisher\_name =varchar(30);

DELETE FROM AUTHOR\_ARTIST

WHERE a\_ID =varchar(20) AND

firstname =varchar(15) AND

last\_name = varchar(15);

**Example:**

DELETE FROM BOOK

WHERE barcode = ‘602978009201’ AND

book\_category = ‘Reference’ AND

ISBN = ‘743222001’;

DELETE FROM WRITTEN\_BY

WHERE ISBN = ‘743222001’AND

a\_ID =‘A23542521’;

DELETE FROM STORES

WHERE store\_ID = ‘6611445639’AND

barcode = ‘602978009201’ AND

inventory = ‘14’ AND

sold = 1;

DELETE FROM ITEM

WHERE barcode =‘602978009201’AND

item\_name = ‘special’AND

aisle =11 AND

bin =11 AND

price= 51.11 AND

publisher\_name =‘Sybex’;

DELETE FROM AUTHOR\_ARTIST

WHERE a\_ID =‘A23542521’AND

firstname =‘Jackson’AND

last\_name = ‘Wilshereman’;

3.When deleting a publisher, you must insert the related values in table PUBLISHER

SQL syntax:

DELETE FROM  PUBLISHER

WHERE publisher\_name=varchar(30);

**Example:**

DELETE FROM  PUBLISHER

WHERE publisher\_name=‘strange’;

4.When deleting a costomer, you must delete the related values in table Customer.

SQL syntax:

DELETE FROM  Custome

WHERE customer\_ID = CHAR(10) AND

firstname =varchar(15) AND

last\_name = varchar(15) AND

email = VARCHAR(30);

**Example:**

DELETE FROM  Custome

WHERE customer\_ID = ‘7938024831’ AND

firstname =‘An’AND

last\_name = ‘allen’AND

email = ‘allen@gmail.com’ ;

**5.The delete statement for each entity in our database.**

DELETE FROM BOOK

WHERE barcode = CHAR(12) AND

book\_category = VARCHAR(20) AND

ISBN = CHAR(22) ;

DELETE FROM WRITTEN\_BY

WHERE ISBN = CHAR(22) AND

a\_ID = VARCHAR(20);

DELETE FROM STORES

WHERE store\_ID = char(10) AND

barcode = char(12) AND

inventory = varchar(20) AND

sold = int;

DELETE FROM STORE

WHERE store\_ID = char(10) AND

store\_name= varchar(30) AND

zip\_code = char(5) AND

country = varchar(20) ;

;

;

DELETE FROM ITEM

WHERE barcode =char (12) AND

item\_name =varchar(50) AND

aisle =int AND

bin =int AND

price= float(5, 2) AND

publisher\_name =varchar(30);

;

DELETE FROM PUBLISHER

WHERE publisher\_name = VARCHAR(30) ;

DELETE FROM AUTHOR\_ARTIST

WHERE a\_ID =varchar(20) AND

firstname =varchar(15) AND

last\_name = varchar(15);

DELETE FROM  Custome

WHERE customer\_ID = CHAR(10)

firstname =varchar(15) AND

last\_name = varchar(15) AND

email = VARCHAR(30);

DELETE FROM  TRANSACTIONS

WHERE transaction\_ID = CHAR(2) AND

Time=ate AND

Customer=ID char(10) AND

email = VARCHAR(30);

DELETE FROM  CONTAINED\_IN

WHERE quantity =INT AND

barcode =CHAR(12) AND

transaction\_ID =INT;

DELETE FROM  COMPOSED\_BY \_IN

WHERE disk\_ID= VARCHAR(30) AND

a\_ID =VARCHAR(20);

DELETE FROM  SOFTWARE

WHERE soft\_ID= INT(8) AND

soft\_category =VARCHAR(20) AND

barcode =CHAR(12);

DELETE FROM  JOURNA

WHERE ISSN=INT(8) AND

issue =ARCHAR(20)AND

barcode =CHAR(12);

DELETE FROM  CD\_DVD

WHERE barcode char(12))AND

genre =archar(20) AND

disk\_ID =archar(30);