

Table Schema

GENRE (

genreID CHAR (3),
genreName VARCHAR (255)

)

PK: genreID

BOOKMARK (

bookmarkID INTEGER,
artDesc VARCHAR (255)

)

PK: bookmarkID

CUSTOMER (

customerID INTEGER,
customerFName
VARCHAR (255),
customerLName
VARCHAR (255),
customerNumber CHAR (10)

)

PK: customerID

STAFF (

yearHired YEAR,
orderHired INTEGER,
staffFName VARCHAR (255),
staffLName VARCHAR (255),
staffNumber CHAR (10),
salary DECIMAL (8,2)

)

PK: (yearHired, orderHired)

CATALOG (

ISBN_13 CHAR (13),
title VARCHAR (255),
authorFName
VARCHAR (255),
authorLName
VARCHAR (255),
publisher VARCHAR (255),
pageCount INTEGER,
genreID CHAR (3)

)

PK: ISBN_13

FK: genreID → GENRE (genreID)

BOOKINVENTORY (

bookInvID INTEGER,
isNew BOOLEAN,
bookDesc VARCHAR (255),
price DECIMAL (8,2),
bookmarkID INTEGER,
ISBN_13 CHAR (13)

)

PK: bookInvID

FK: bookmarkID →
BOOKMARK (bookmarkID)

FK: ISBN_13 → CATALOG (ISBN_13)

READINGGROUP (

groupName VARCHAR (255),
genreID CHAR (3)

)

PK: groupName

FK: genreID → GENRE (genreID)

PURCHASE (

- purchaseID* INTEGER,
- timeOfSale* TIME,
- dateOfSale* DATE,
- customerID* INTEGER,
- yearHired* YEAR,
- orderHired* INTEGER

)

PK: *purchaseID*

FK: *customerID* → CUSTOMER(*customerID*)

FK: (*yearHired*, *orderHired*) → STAFF(*yearHired*, *orderHired*)

CUSTOMERREADINGGROUP (

- customerID* INTEGER,
- groupName* VARCHAR(255),

)

PK: (*customerID*, *GroupName*)

FK: *customerID* → CUSTOMER(*customerID*)

FK: *groupName* → READINGGROUP(*groupName*)

BOOKINVPURCHASE (

- bookInvID* INTEGER,
- purchaseID* INTEGER,

)

PK: (*bookInvID*, *purchaseID*)

FK: *purchaseID* → PURCHASE(*purchaseID*)

FK: *bookInvID* → BOOKINVENTORY(*inventoryID*)

Functional Dependencies

GENRE

genreID → genreName

BOOKMARK

bookmarkID → artDesc

CUSTOMER

customerID → customerFName, customerLName, customerNumber

STAFF

(yearHired, orderHired) → staffFName, staffLName, staffNumber, salary

CATALOG

ISBN_13 → title, authorFName, authorLName, publisher, pageCount, genreID

BOOKINVENTORY

bookInvID → isNew, bookDesc, price, bookmarkID, ISBN_13

READINGGROUP

groupName → genreID

PURCHASE

purchaseID → timeOfSale, dateOfSale, customerID, yearHired, orderHired

CUSTOMERREADINGGROUP

(customerID, groupName) → (customerID, groupName)

BOOKINVPURCHASE

(bookInvID, purchaseID) → (bookInvID, purchaseID)