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CSCI 466

**Assignment 4**

**1)**

**Employee**:

Employee ID

First name

Last name

Address

Phone

Hours Worked

Pay Rate

**Interacts With**:

Customer Phone:

This field contains a customer phone number look-up file for the company to find a customer’s membership account when they need to buy a book.

**Places Order**:

Order ID:

Customer ID + Employee ID

This field holds the ID number which is for when a customer orders a book that the store does not have and the store needs to order for them.

Employee ID - FK

Customer ID - FK

ISBN – FK

Order date

Shipped:

The item does not ship if the order is not completely available.

Delivered:

Delivered holds the date that a customer either will receive the item or the date they pick it up from the store.

**Customer**:

Customer ID

First name

Last name

Address

Customer Phone

Membership ID - Optional

**Buys:**

Transaction ID

Customer ID + ISBN

Customer ID - FK

ISBN - FK

Purchase date

**Books:**

ISBN

Title

Author name(s)

Genre

Publisher ID - FK

Number Available

Price

**Publisher**:

Publisher ID

Representative:

The vendor point of contact.

Address

Phone

Genres available

**2)**

Employee(employeeID, firstName, lastName, address, phone, payRate, hours worked)

PlacesOrder(orderID, customerID, employeeID, ISBN, orderDate, shipped, delivered)

customerID, employeeID, and ISBN are foreign keys into Customer, Employee, and Books respectively.

Delivered holds the date that a customer either will receive the item or the date they pick it up from the store.

The item does not ship if the order is not completely full-filled/available.

Publisher(publisherID, representative, phone, address, genres available)

Books(ISBN, title, author name(s), genre, publisherID, numAvailable, price)

publisherID is a foreign key into publisher.

Customer(customerID, firstName, lastName, address, customerPhone, membershipID)

membershipID field is optional

Buys(transactionID, customerID, ISBN, purchaseDate, quantity)

cutomerID is a foreign key into customer.

ISBN is a foreign key into books.

These tables are in 3NF because there are no transitive dependencies, all tables include a reference to all the primary keys that are related to the entity/relationship.