

Part 2 Schema
Brian Lemke, Thomas Macaulay, Matthew McFadden

Library(name, address, city, zip)

- Every library in the system has a different name

Customer(customerID, lastName, firstName, birthDate)

Item(itemID, libraryName, author, title, year, length, genre, artist)

- itemIDs are *not* unique across the entire system, only within the library

Employee(employeeID, lastName, firstName, title, salary, libraryName)

Accesses(customerID, libraryName)

- A customer can access multiple libraries

Loan(lendingLibrary, borrowingLibrary, date, itemID)

Checkout(libraryName, customerID, itemID, fineAmount, dateOut, dateDue)

- We assume that a book cannot be checked out twice in one day

BCNF

These tables are already in BCNF. There are no non-trivial FDs that violate BCNF.

4NF

These tables are already in 4NF. There are no non-trivial MVDs at all.