Situation Description – Library Database

For this exercise our group chose the library example. In this library we decided there would be only 1 location, but with multiple employees. Tables within would store Employees, Customers, Books, Authors, A transaction table (which logs the customer, employee, takeout date, and due date), and a history table which shows a record of all the books that have been checked out, what transaction it was affiliated with, and which book(or books) it was. Customers were allowed to take out multiple books.

New customers can be added with their customer id(key), name, address, phone number, and their email address. New employees can also be added using the same information and an employee id (key). Books can be added as well that contain the book id (key), author id, title, genre and publishing date. Tracking this back we also add the authors information which contains their author id(key) name and date of birth.