## swdv 220 project 1: Normalization

**Project Due Tuesday, September 6th, 11:59 pm**

### Introduction

In this assignment, create a normalized database model.

### What to Do

1. Create a physical database model in 3NF using Visio to create the ERD. Post the \*.vsd in BB.
   * Requirements: This system tracks my personal music inventory. Occasionally, a disk may be loaned to friends or family so borrower information must be tracked. The current system is limited because the previous borrower information is overwritten when a disk is loaned more than one time. The current system is geared towards music CDs but should also track DVD, vinyl, cassette, & 8-track.
   * Current system:

|  |
| --- |
| UnnormalizedCDInventory |
| CD\_ID |
| CD\_name |
| Release\_date |
| Status (on loan, in inv, etc.) |
| Genre (rock, country, metal, etc.) |
| Borrower\_name |
| Borrower\_phone\_number |
| Borrowed\_date |
| Returned\_date |

### Grading

|  |  |  |
| --- | --- | --- |
| Points | Assignment | Requirements |
| 100 | ERD | Your model:   * Includes 6+ entities that are appropriately related * Includes correct:   + Entities   + Attributes   + Datatypes   + Primary keys & foreign keys   + Optionalilty   + Cardinality * Meets 3NF requirements * Attributes are appropriately decomposed * Is complete; supports the specifications |
| 10 | ERD | Submitted document is neat and easy to read |
| 10 | ERD | Directions followed |