## SWDV 220 project 3: Working with Data

**Project Due Tuesday, October 1st, 11:59pm**

### Introduction

In this assignment, write SQL queries to update your disk\_inventory database. Update / replace the script used in Project 2.

### What to Do

Using your disk\_inventory database, write the SQL statements to be executed against it as directed below. Save the code & documentation for each of the following queries into your sql file from Project 2. The ENTIRE script should run without error & the modification log should have an entry for Project 3. Push the sql document to your online repo & post the link in BB. **No joins are required this week.**

* 1. Document each SQL statement – what it is supposed to do.
  2. If structure changes are needed to the tables from previous projects, include the code at the beginning of your script & document it/them.
  3. Disk\_type, Genre, & Status – insert 5+ rows into each using real-world data
  4. Disk table:
     1. Insert at least 20 rows of data into the table using real-world disk names
     2. Update only 1 row using a where clause
     3. At least 1 disk has only 1 word in the name
     4. At least 1 disk has only 2 words in the name
     5. At least 1 disk has more than 2 words in the name
  5. Borrower table:
     1. Insert at least 21 rows of data into the table using real-world borrower names
     2. Delete only 1 row using a where clause
  6. DiskHasBorrower table:
     1. Insert at least 20 rows of data into the table
     2. Insert at least 2 different disks
     3. Insert at least 2 different borrowers
     4. At least 1 disk has been borrowed by the same borrower 2 different times
     5. At least 1 disk in the disk table does not have a related row here
     6. At least 1 disk must have at least 2 different rows here
     7. At least 1 borrower in the borrower table does not have a related row here
     8. At least 1 borrower must have at least 2 different rows here
  7. Create a query to list the disks that are on loan and have not been returned.

Sample Output:

Borrower\_id Disk\_id Borrowed\_date Return\_date

9 2 2012-04-02 NULL

9 4 2012-04-02 NULL

### Submitting work

* Update the disk\_inventory.sql document from project 2 with the code for this project. All scripts (including the ones from project 2) should run without error. Upload your script to Project 3 on BB.

### Grading

|  |  |  |
| --- | --- | --- |
| Points | Assignment | Requirements |
| 100 | MSSQL | Query syntax & results are correct; Data created as specified and does not violate logical referential integrity. |
| 10 | MSSQL Script | Code has relevant inline documentation & completed mod log. |
| 20 | MSSQL | Structure changes from previous assignments are correctly scripted & documented (as needed); previous issues resolved appropriately (as needed); script runs without error. |
| 20 | MSSQL | SQL document is neat and easy to use; stored appropriately in an online repo; repo history is appropriate; other directions followed. |