

# Database Management Systems II (DBMS-2004)

## Milestone 2 – Final Project

### Milestone 2 – Data Imports and Exports and Testing Data

#### Deliverable 1

You have just been advised that the staff of eBooks.com forgot about the data extract they were supposed to prepare for you. You need some data for testing, so you will need to create your own. Navigate to the eBooks.com web site and choose a book category. Once you have a broad category, click that link to the subcategories list and choose a subcategory. Since not all books will be made available to JR Rentals, you will need to confirm with the lead project analyst (your instructor) that it is OK to use that category/subcategory of books for extract. Using Email, send the name of the category and subcategory you wish to use. DO NOT proceed with that category/subcategory until you receive a confirmation it is OK to use (use of an unapproved category results in a mark of zero for the deliverable). Once you have obtained permission to use that subcategory:

1. Create a folder called ~~LoadData~~. All files created in steps 2-6 below must be created in this folder.
2. Create a CSV file for the table eBook (filename eBook.csv). The CSV must contain at least 10 books from your approved subcategory. At ~~least two of these~~ books must have ~~two or more authors~~. All of the information required for this table must be supplied for each book. If a book on eBooks.com does not contain all this information then it cannot be added to the JR Rental database. For the rental cost column, use a price of 10% of the purchase price. Data must use a comma as a separator and strings and dates must be placed in single quotes. NOTE: Published Date may not have a day value (often only the year and month are provided). If you do not have a day assume the first of the month.
3. Create a CSV file for the Authors (filename Author.csv). This file will be loaded onto the existing 'Contributors' table. Determine the ~~highest ContributorID~~ on the table (use a query in SQL Plus or SQL Developer to determine the highest value) and give the first author this number plus one. All remaining authors have a ContributorID value one higher than the previous. At minimum the First and Last names must be specified. If there is no middle name it must be set to NULL. MusicalGroup will always be NULL. Data must use a comma as a separator and strings and dates must be placed in single quotes.
4. Using the data added for CSV files 1 and 2, create the appropriate CSV file for the BookAuthor table (filename BookAuthor.csv). This table will connect the eBook and Contributor tables together. Data must use a comma as a separator and strings and dates must be placed in single quotes.
5. Some in-house test data will be required for the RentalAgreement and BookRented tables. Using the Customers table and eBook table data create 15 RentalAgreements. Six rental agreements must be for two books and nine RentalAgreements must be for a single book. Do not reuse any customers and use each book at least once. All rental agreements are to be for 7 days. Spread these rental agreements out over the last 3 months (evenly – 5 agreements per month – 3 single book; 2 double books). Create CSV files for both tables using the data you create (filenames RentalAgreement.csv and BookRented.csv). Data must use a comma as a separator and strings and dates must be placed in single quotes.
6. Using the SQL Loader utility, load all 5 tables with the data created above. The SQL Loader utility will be executed from a batch file named LoadRecords.bat. The batch file must execute all loads without any pauses between each. Control file names must have the same prefix as the file to load with the

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extension '.ctl' (i.e. eBook.ctl). Use a ~~conventional load~~ and make sure to specify a **delineation** character of **a comma** and that **strings** are enclosed in **single quotes**. Do not name the **Bad**, **Discard** or **Log** files. All records you **create must load successfully**.

7. Run the **batch** file to **load** the data **into the tables** in your schema

#### Deliverables:

A single .zip archive named '*yourlastname,firstinitial.zip*'. This zip file contains the folder LoadData which must contain the batch file 'LoadRecords.bat', all 5 CSV Files for loading table data and the files necessary to run SQL Loader as well as the results from running the data load (the log files).

Your database loaded with the data in the files you created.

**WARNING:** You may only submit this milestone deliverable once, so make sure you are satisfied with what you have done before submitting. Submitting in error is NOT a valid excuse.

Submitting to the drop box will automatically release the next milestone deliverable(s) to you. You must submit *something* to receive the next milestone deliverable(s).