CSIS 3475 - DATA STRUCTURES AND ALGORITHMS

JAVA DATABASE PROJECT SPECIFICATION

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General Database Rules:

* Table Definition
  + Table names cannot have spaces and must be English-language letters. They also cannot be punctuation characters.
  + Only the following data types are allowed:
    - String
    - Integer
    - Double
    - Date
* Primary Keys
  + The first field the user defines when using the CREATE TABLE command MUST be the primary key, which will always be an Integer.
  + The name of the column must have “PK” in front i.e. “PKcolumnName”.
* Foreign Keys
  + Foreign key definition MUST be done during table creation. The name of the column must have “FK” in front i.e. “FKcolumnName”.

Specific Commands:

* SELECT Command
  + The user is limited to selecting two tables at a time
* UPDATE Command
  + Can only update a single field in a table at a time.
  + The user must specify the row they wish to edit via the Primary Key
* DELETE Command
  + Can delete all rows in a table
  + Can delete an entire table
  + The user must specify the row they wish to delete via the Primary Key
* ORDER BY Command
  + The user is limited to only a single column to order by.
* INNER JOIN
  + The user must define an inner join in the first line, immediately after the first table name i.e. “SELECT colname FROM table1 INNER JOIN table2”.