

***PART I: Data Generator – Due in one week***

Consider the data presented below. Create a file of fifteen records that abide the following file schemea and then represent the file as a CSV (Comma Separated Value) file. Your file will be combined with the other groups' files to form one large data set on which we will apply Part II (below). You should also create a file to be used in the "JOINING" phase as indicated in the In-Class Handout. **Thus, submit two CSV files of fifteen records each.**

<b>Client Number</b>	<b>Name</b>	<b>Address</b>	<b>Date of Purchase</b>	<b>Magazine Type</b>
<b>23003</b>	<b>Johnson</b>	<b>1 Downing St.</b>	<b>04-15-1999</b>	<b>Car</b>
<b>23003</b>	<b>Johnson</b>	<b>1 Downing St.</b>	<b>06-21-1999</b>	<b>Music</b>
<b>23003</b>	<b>Johnson</b>	<b>1 Downing St.</b>	<b>05-30-1999</b>	<b>Comic</b>
<b>23009</b>	<b>Clint</b>	<b>2 Boulevarde</b>	<b>11-11-1111</b>	<b>Comic</b>
<b>23013</b>	<b>King</b>	<b>3 High St.</b>	<b>02-30-2000</b>	<b>Sports</b>
<b>23019</b>	<b>Jonson</b>	<b>1 Downing St.</b>	<b>11-11-1111</b>	<b>house</b>

***PART II: Program a Data Cleaner***

Build a system to transform the data, one step at a time, following the sequence of steps covered in class as the KDD (Knowledge Discovery Process) for the Magazine Marketing Problem, clean the data. The steps to be applied include:

- Selection (from part I above)
- De-duplication
- Correction
- Joining
- Coding :
  - address to region,
  - date to period,
  - income divided by 1000,
  - binary transformations

1. You may implement each of the above (sans "Selection") as its own class or method
2. You may build this as a Menu-Driven Program or with a GUI
3. You will demo your system in two weeks to the class. The final collective data file of "dirty data" will be available in one week and one day. So test your system on your own file until the full file is available.