**ISDS 3107**
**Assignment 6: ETL Customer Data w/ a Class**
**Due: 17 March 2020**

Description

The goal of this assignment is to demonstrate the ability to connect with a database, define a class, create objects, and output data as a json file.

Examples of these types of operations will be discussed in the book and lectures.

Requirements

Using an unmodified customer.sqlite file provided with the assignment, create a customer class that captures all the fields, calculates age from a customer's date of birth, calculates adult status (True or False), and output information in a json format.

Grading

- Turn-in files via Moodle
  - python code file paws_id + '_cust_class.py' (jdavi48_cust_class.py) – 5 pts
  - create a class string variable (student_name) with your name – 5 pts
- Create a python class: Customer
  - function to create the Customer object
    - function named "__init__" – 5 pts
    - initializes an object from all the fields of the customer.sqlite / customer table. – 15 pts
  - function to create the customer's full name
    - function named "full_name" – 5 pts
    - returns a concatenation of the customer's first & last name separated by a space – 10 pts
  - function to calculate the customer's age
    - function named "age" – 5 pts
    - returns the customer's age as an integer – 10 pts
  - function to identify if the customer is an adult
    - function named "adult" – 5 pts
    - returns a boolean indicating if the customer is 18 years of age or older – 15pts
  - function that outputs all customer attributes in a json friendly format
    - function named "to_json" – 5 pts
    - returns a dictionary of all a customer's attributes to include full_name, age, adult status {"id": 1, "first_name": "Kristen", "last_name": "Klein", "dob": "2002-11-03", "city": "North Cynthiafurt", "state": "AZ", "zip": "50788", "age": 16, "full_name": "Kristen Klein", "adult": false} – 15 pts