Homework 1

MSAN 697, Diane Woodbridge
Due : Nov 3rd (Midnight (PST))

Description

Given input file, “walmart_search_san_francisco.json” (Merchandise information containing “San Francisco”), complete the python scripts to answer Q1-Q4 (hw1_main.py, json_key_vaue.py, postgres_function.py). *Do not add additional libraries or change the function definition.
Submit the .zip file- the name of your zipped file should be **MSAN697_HW1_LastName_Firstname.zip** on Canvas.

Q1. (10%)

- Complete “get_data_value()”function (json_key_value.py) to retrieve the value of "totalResults()" in walmart_search_san_francisco.json.

Q2. (10%)

- Complete “count_data()” function (json_key_value.py) to retrieve the actual number of objects(item) in "items" in Walmart_search_san_francisco.json.

Q3. (50 %)

- Complete “create_table()” function in “postgres_function.py” to create a table with given field names and types.
- Create a table called “inventory” with "itemId"(integer) and "qty"(integer, and should be the last 2 digts of itemId). - Insert all the items from the json file.
- Create a table called “items” with “itemId”(integer), “name”(varchar), “shortDescription”(text), “customerRating”(real), “numReviews”(integer) - Insert all the items from the json file.

Q4. (20 %)

- Complete “select_data()” function in “postgres_function.py” to find data from a table satisfying given constraints.
- Find “MLB Women's San Francisco Giants Short Sleeve Top”'s ItemId and QTY.

Q5. (10 %) Name the fields in the original input data(.json) that is not included in the item table (Least at least 5 in “Q5_Answers.txt”.).

OUTPUT EXAMPLE:

```
ML-ITS-123456:Answer_Code dwoodbridge$ python hw1_main.py
123
100
(12345, 45)
```