Chapter 14 Coffee Supplies

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Instructions:

Using the coffee database created in the previous assignment as your data source, generate a report showing coffee supplies by category similar to the one below. Each category name should appear only once and categories should be in alphabetical order. (NOTE: Alphabetizing the products in each category is optional.)

|  |
| --- |
| Supply |
| + product  + category  + supplier |

Data:

Classes:

- Supply(product, category, supplier)

Variables:

- coffee\_connection: conection to ‘Coffee.db’

- coffee\_cursor: allows us to perform sql commands

- coffee\_supplies: dictionary with ‘Category’ as key and array of Supply objects with that category key

- results: holds results of select query

- row: specific row from results

Process:

1. Open connection to “Coffee.db”
2. Initialize coffee\_supplies dictionary
3. Try
   1. **SELECT \* FROM Coffee ORDER BY Category**
   2. Get results using fetchall
   3. Iterate over results

Create Supply object from row’s data

Add it to dictionary using their category as key

Example:

**Coffee\_supplies[category].append(Supply(…))**

I do this so I can organize all my products under their related category value. For example,

Coffee\_supplies[“Coffee”] = [Supply(“Dark Roast”…), Supply(“Frech Roast”…)]

Coffee\_supplies[“Condiments”] = [Supply(“Artificial…”), Supply(“Honey Pac…”)]

* 1. With all values in coffee supplies, iterate over the dictionary

Print Category ‘key’

Iterate over the array customer\_supplies[category]

Print Product and Supplier

1. Exception: print sqlite3.Error()

Output:

Print the headers -> Category, Product, Supplier

Print Category, which will appear once in the table and will be in alphabetical order

Print every product/supplier with that category. Will be in alphabetical order

Example Output from my console

Category Product Supplier

========= ================== ================

Coffee

Dark Roast Coffee Using your bean

Espresso Using your bean

French Roast Coffee Using your bean

Itallian coffee Using your bean

Condiments

Artificial sweetener Ken's club

Honey Packets Ken's club

Sugar Ken's club