Chapter 14 Coffee

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Instructions

For this assignment, you will be providing the logic (plan) for the following program:

Create an SQLite database with one table named **Coffee**. The table should have the following fields:

* + - **ProductID** INTEGER PRIMARY KEY NOT NULL
    - **Product** TEXT
    - **Category** TEXT
    - **Supplier** TEXT

Insert data into the **Coffee**table using the data provided in the comma-delimited text file:

Data:

Variables:

- coffee\_connection: connection to database

- coffee\_cursor: allows us to perform SQL operations

- lines: all lines from the csv file

- row: specific line from csv file

- product: String – product column from csv file

- category: String – category column from csv file

- supplier: String – supplier column from csv file

Process:

1. Open database connection and set cursor
2. Create table if it doesn’t exist with the following columns, commit it
   * 1. **ProductID** INTEGER PRIMARY KEY NOT NULL
     2. **Product** TEXT
     3. **Category** TEXT
     4. **Supplier** TEXT
3. Open the csv file
   1. Try:
      1. Iterate over the rows in the csv file
      2. Extract product, category, and supplier from the row
      3. Try: Insert values into Coffee table, commit it
      4. Exception: print sqlite3.Error
      5. Get the number of rows in the table by using “SELECT count(\*) from Coffee”, display it to the user
   2. Exception
      1. IOError opening file. Display error to user

Output:

1. If everything works ->
   1. When a row is successfully added, print it to the console
   2. Print the number of rows added to the console
2. If csv error -> print IOError
3. If sql error -> print sqlite3.Error