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. Insert values into Coffee table, commit it
      4. Get the number of rows in the table by using “SELECT count(\*) from Coffee”, display it to the user
   2. Exception
      1. Error opening file. Display error to user

Output:

1. When a row is successfully added, print it to the console
2. Print the number of rows added to the console