

CCP6114-PROGRAMMING FUNDAMENTALS

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Input Sample 1

Output Sample 1

```
C: > Windows > Programming_fundamental > ≡ fileOutput1.txt
       >CREATE fileOutput1.txt;
       >DATABASES;
      C:\Windows\Programming fundamental\fileInput1.mdb
      >CREATE TABLE customer(
      customer id,
      customer_name,
      customer_city,
      customer_state,
      customer country,
      customer_phone,
      customer email
      >INSERT INTO customer VALUES
       ('1','Alice','New York','NY','USA','1234567890','alice@example.com')
       ('2','Bob','Los Angeles','CA','USA','0987654321','bob@example.com')
       ('3','Charlie','Chicago','IL','USA','1122334455','charlie@example.com')
       ('4','Diana','Houston','TX','USA','6677889900','diana@example.com')
```

Run in Command Prompt

```
C:\Windows\Programming_fundamental>CCP_Asg.exe
> Table created: customer
> Row inserted into customer;
customer_id,customer;
customer_id,customer_name,customer_city,customer_state,customer_country,customer_phone,customer_email
1,Alice,New York,NY,USA,1234567890,alice@example.com
2,Bob,Los Angeles,CA,USA,0987654321,bob@example.com
3,Charlie,Chicago,IL,USA,1122334455,charlie@example.com
4,Diana,Houston,TX,USA,6677889900,diana@example.com
> Output written to fileOutput1.txt
```

Input Sample 2

Output Sample 2

Run in Command Prompt

```
C:\Windows\Programming_fundamental>CCP_Asg.exe
 Table created: customer
 Row inserted into customer
 Row inserted into customer
> Row inserted into customer
 Row inserted into customer
> SELECT * FROM customer;
customer_id,customer_name,customer_city,customer_state,customer_country,customer_phone,customer_email
1,Alice,New York,NY,USA,1234567890,alice@example.com
2,Bob,Los Angeles,CA,USA,0987654321,bob@example.com
3,Charlie,Chicago,IL,USA,1122334455,charlie@example.com
4,Diana,Houston,TX,USA,6677889900,diana@example.com
 Row deleted.
 SELECT COUNT(*) FROM customer;
Count: 3
 Output written to fileOutput3.txt
```

Input Sample 3

Explanation:

This script demonstrates the creation and manipulation of a customer table in a database. The table is created using the CREATE TABLE command with columns for customer details such as ID, name, city, state, country, phone, and email. These columns are defined with appropriate data types, such as INT for numeric IDs and TEXT for text-based fields like names, cities, and emails.

After the table creation, four records are added using the INSERT INTO command. Each record represents a customer with their unique ID and associated details. The SELECT * FROM customer; command retrieves and displays all the records, showing the complete customer data stored in the table. Finally, the SELECT (*) FROM customer; command displays all the customer information in a tabular format.

Output Sample 3

```
C: > Windows > Programming_fundamental > ≡ fileOutput2.txt
      >CREATE fileOutput2.txt;
      >DATABASES;
      C:\Windows\Programming fundamental\fileInput2.mdb
      >CREATE TABLE customer(
      customer id,
      customer_name,
      customer_city,
      customer_state,
      customer country,
      customer phone,
      customer email
      >INSERT INTO customer VALUES
      ('1','Alice','New York','NY','USA','1234567890','alice@example.com')
      ('2','Bob','Los Angeles','CA','USA','0987654321','bob@example.com')
       ('3','Charlie','Chicago','IL','USA','1122334455','updatedemail@example.com')
```

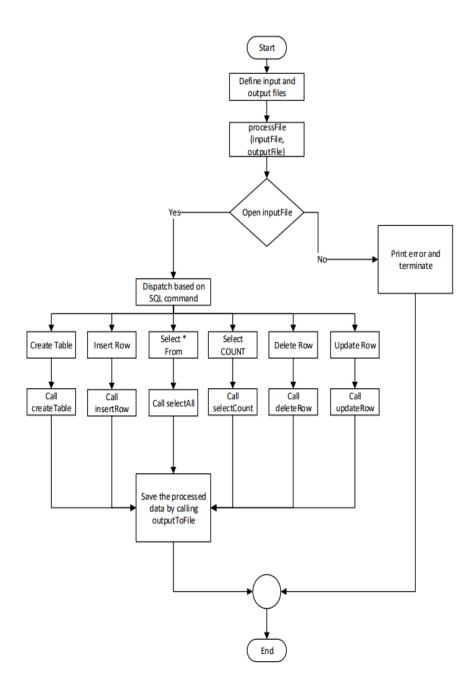
Explanation:

The provided output file demonstrates the process of creating and managing a simple database and its associated operations. Initially, a file named fileOutput2.txt is created, and a database located at C:\Windows\Programming_fundamental\fileInput2.mdb is selected. A table named customer is then created with columns for customer ID, name, city, state, country, phone, and email, though these fields are incorrectly defined as integers, which is unsuitable for text-based data like names and email addresses. Following this, three customer records are inserted into the table, each containing details such as ID, name, location, phone number, and email address. The records are retrieved using the SELECT * FROM customer; command, which displays all the customer information in a tabular format. Finally, the SELECT COUNT(*) FROM customer; command is used to count the total number of rows in the table, resulting in a count of 3. Despite its functionality, the script has a notable issue with the incorrect data type definitions for several fields that should store text instead of integers.

Run in Command Prompt

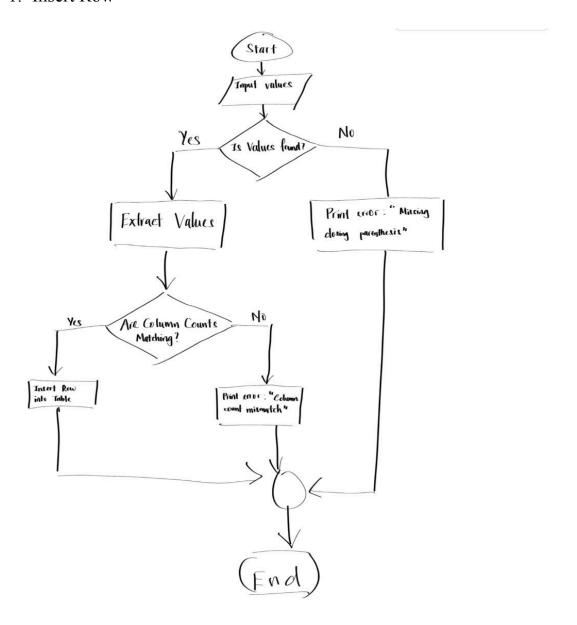
```
C:\Windows\Programming_fundamental>CCP_Asg.exe
> Table created: customer
> Row inserted into customer
> SELECT * FROM customer;
customer_id,customer_name,customer_city,customer_state,customer_country,customer_phone,customer_email
1,Alice,New York,NY,USA,1234567890,alice@example.com
2,Bob,Los Angeles,CA,USA,0987654321,bob@example.com
3,Charlie,Chicago,IL,USA,1122334455,charlie@example.com
4,Diana,Houston,TX,USA,6677889900,diana@example.com
> Row updated.
> Row deleted.
> SELECT COUNT(*) FROM customer;
Count: 3
> Output written to fileOutput2.txt
```

Flowchart of Whole Program

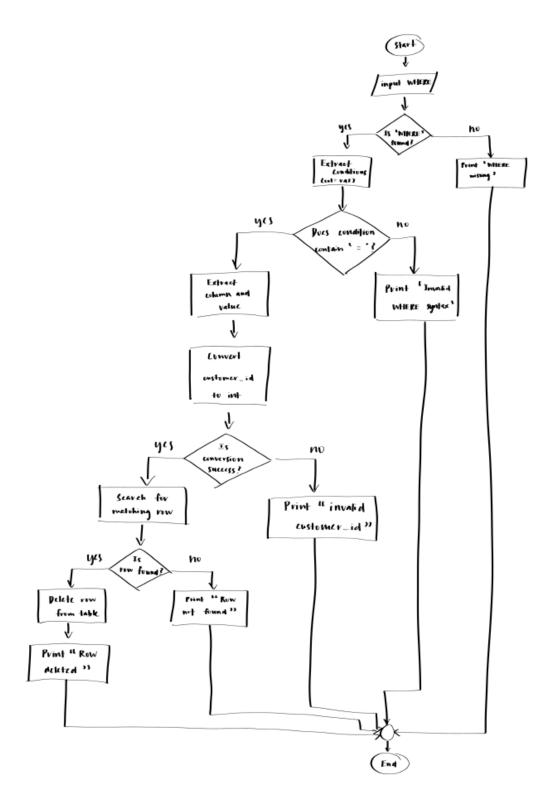


Flowchart of Function

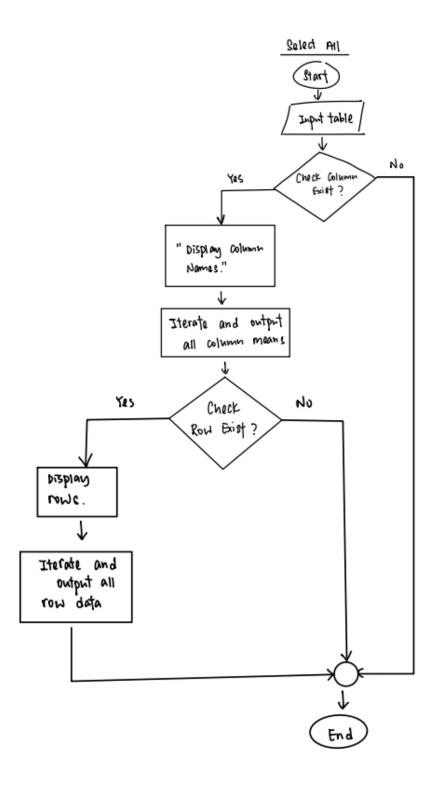
1. Insert Row



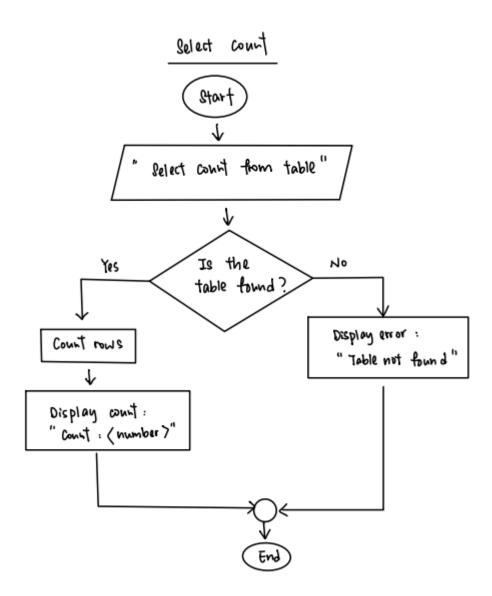
2. Delete Row



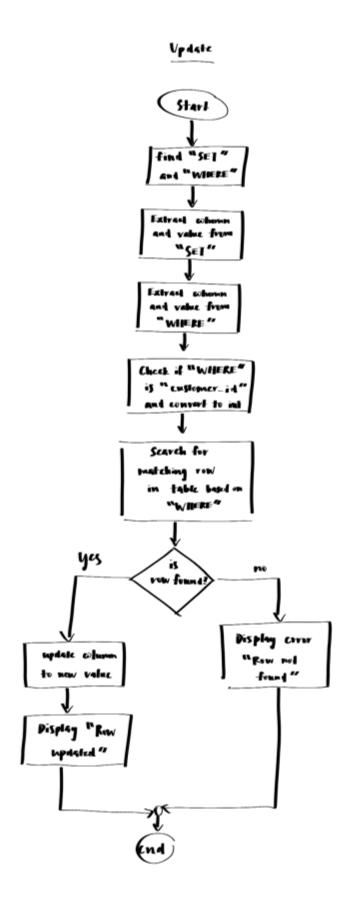
3. Select All



4. Select All



5. Update Row



6. Create Table

