Duc Tran CS283 Assignment 1

Mini Database

Documentation

Database format:

- \_Each database is saved as .txt file
- \_Each value is separate by a , ex: field1,field2,
- \_First line is the field and the rest after is data.

Test main functionality

**SELECT** 

```
n3-15-232:a1 ductran$ cd "/Users/ductran/Desktop/a1/" && gcc minibase.c -o min ibase && "/Users/ductran/Desktop/a1/"minibase Enter command:
SELECT
Enter table name:
test
Enter select field:
*
Enter where field:
field1
Enter where value:
data1
field1 field2 field3
data1 data10 data3
n3-15-232:a1 ductran$
■
```

```
Enter command:
SELECT
Enter table name:
test
Enter select field:
field1,field2
Enter where field:
field2
Enter where value:
data5
field1 field2
data8 data5
```

# **DELETE**

## Before

```
field1, field2, field3,
data1, data10, data3,
data8, data5, data6,
data7, data8, data9,
data20, data40, (null),
(null), (null),
(null), (null),
```

## After

```
Enter command:
DELETE
Enter table name:
test
Enter where field:
field2
Enter where value:
data40
field1 field2 field3
data1 data10 data3
data8 data5 data6
data7 data8 data9
(null) (null) (null)
(null) (null) (null)
```

## **UPDATE**

# Before

```
field1, field2, field3,
data1, data10, data3,
data8, data5, data6,
data7, data8, data9,
(null), (null), (null),
(null), (null),
```

## After

```
n3-15-232:al ductrans cd "/Users/ductran/Desktop/al/" && gcc minibase.c -o minibase && "/Users/ductran/Desktop/al/"minibase
Enter command:
UPDATE
Enter table name:
test
Enter set field:
field1
Enter set value:
data99
Enter where field:
field2
Enter where value:
data10
field1 field2 field3
data99 data10 data3
data8 data5 data6
data7 data8 data9
(null) (null) (null)
(null) (null)
```

#### **INSERT VALUE**

#### **Before**

```
field1,field2,field3,
data99,data10,data3,
data8,data5,data6,
data7,data8,data9,
(null),(null),
(null),
```

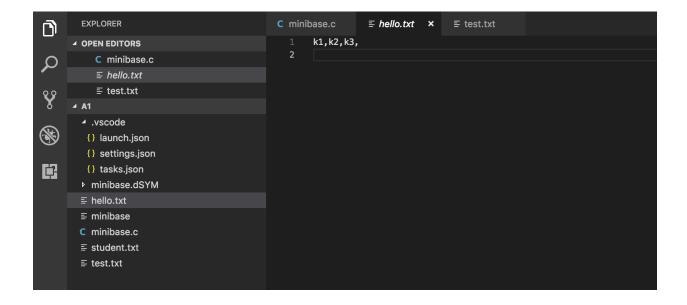
## After

```
n3-15-232:a1 ductran$ cd "/Users/ductran/Desktop/a1/" && gcc minibase.c -o minibase && "/Users/ductran/Desktop/a1/"minibase Enter command:
INSERT
Enter table name:
test
Enter field:
field1
Enter value:
data88
field1 field2 field3
data99 data10 data3
data8 data5 data6
data7 data8 data6
data7 data8 (aull) (null)
(null) (null) (null)
(null) (null) (null)
```

```
n3-15-232:a1 ductran$ cd "/Users/ductran/Desktop/a1/" && gcc minibase.c -o minibase && "/Users/ductran/Desktop/a1/"minibase
Enter command:
INSERT
Enter table name:
test
Enter field:
field2
Enter value:
data55
field1 field2 field3
data99 data10 data3
data8 data5 data6
data7 data8 data5 (aull)
(null) (null) (null)
(null) (null) (null)
```

#### CREATE AND DROP TABLE

```
n3-15-232:a1 ductran$ cd "/Users/ductran/Desktop/a1/" && gcc minibase.c -o minibase && "/Users/ductran/Desktop/a
1/"minibase
Enter command:
CREATE
Enter table name:
hello
Enter fields:
k1,k2,k3,
n3-15-232:a1 ductran$ ■
```



```
n3-15-232:a1 ductran$ cd "/Users/ductran/Desktop/a1/" && gcc minibase.c -o minibase && "/Users/ductran/Desktop/a1/"minibase
Enter command:
DROP
Enter table name:
hello
```

# Database is deleted