

Assignment 2 part 1

Group member:

Qinxuan Shi (UFID: 8351-8162)

Compiling and running project:

Steps of compiling and running test:

1. Make clean
2. Make test.out
3. ./test.out

Steps of compiling and running runTestCases.sh:

1. Make clean
2. Make
3. ./runTestCases.sh

Steps of compiling and running gtest:

1. Make clean
2. Make gtest
3. ./gtest.out

Output1.txt:

```
1  n_nationkey: [17], n_name: [PERU], n_regionkey: [1], n_comment: [platelets. blithely pending dependencies use fluffily across the even pinto beans. carefully silent account]
2  n_nationkey: [15], n_name: [MOROCCO], n_regionkey: [0], n_comment: [rns. blithely bold courts among the closely regular packages use furiously bold platelets?]
3  n_nationkey: [9], n_name: [INDONESIA], n_regionkey: [2], n_comment: [ slyly express asymptotes. regular deposits haggle slyly. carefully ironic hockey players sleep blithely. carefull]
4  n_nationkey: [12], n_name: [JAPAN], n_regionkey: [2], n_comment: [ously. final, express gifts cajole a]
5  n_nationkey: [22], n_name: [RUSSIA], n_regionkey: [3], n_comment: [ requests against the platelets use never according to the quickly regular pint]
6  n_nationkey: [20], n_name: [SAUDI ARABIA], n_regionkey: [4], n_comment: [ts. silent requests haggle. closely express packages sleep across the blithely]
7  n_nationkey: [16], n_name: [MOZAMBIQUE], n_regionkey: [0], n_comment: [s. ironic, unusual asymptotes wake blithely r]
8  n_nationkey: [23], n_name: [UNITED KINGDOM], n_regionkey: [3], n_comment: [eans boost carefully special requests. accounts are. carefull]
9  n_nationkey: [21], n_name: [VIETNAM], n_regionkey: [2], n_comment: [hely enticingly express accounts. even, final ]
10 consumer: removed 25 recs from the pipe
11
12
13 producer: opened DBFile customer.bin
14 producer: inserted 1498 recs into the pipe
15
16 o_orderkey: [45089], o_custkey: [559], o_orderstatus: [F], o_totalprice: [51943.1], o_orderdate: [1994-01-28], o_orderpriority: [4-NOT SPECIFIED], o_clerk: [Clerk#000000896], o_shippriority:
17 o_orderkey: [40992], o_custkey: [1063], o_orderstatus: [F], o_totalprice: [137218], o_orderdate: [1993-12-01], o_orderpriority: [2-HIGH], o_clerk: [Clerk#000000383], o_shippriority: [0], o_c
18 o_orderkey: [36071], o_custkey: [1114], o_orderstatus: [0], o_totalprice: [260572], o_orderdate: [1998-04-06], o_orderpriority: [3-MEDIUM], o_clerk: [Clerk#000000734], o_shippriority: [0], i
19 o_orderkey: [59974], o_custkey: [761], o_orderstatus: [0], o_totalprice: [63273.4], o_orderdate: [1995-12-05], o_orderpriority: [2-HIGH], o_clerk: [Clerk#000000862], o_shippriority: [0], o
20 o_orderkey: [57382], o_custkey: [556], o_orderstatus: [F], o_totalprice: [125633], o_orderdate: [1994-03-24], o_orderpriority: [3-MEDIUM], o_clerk: [Clerk#000000392], o_shippriority: [0], o
21 o_orderkey: [49187], o_custkey: [1330], o_orderstatus: [0], o_totalprice: [239518], o_orderdate: [1997-07-17], o_orderpriority: [5-LOW], o_clerk: [Clerk#000000449], o_shippriority: [0], o.c
22 o_orderkey: [40993], o_custkey: [544], o_orderstatus: [0], o_totalprice: [95968], o_orderdate: [1997-10-07], o_orderpriority: [5-LOW], o_clerk: [Clerk#000000414], o_shippriority: [0], o.com
23 o_orderkey: [59975], o_custkey: [706], o_orderstatus: [F], o_totalprice: [59995.3], o_orderdate: [1993-12-22], o_orderpriority: [5-LOW], o_clerk: [Clerk#000000193], o_shippriority: [0], o.c
24 o_orderkey: [49188], o_custkey: [700], o_orderstatus: [0], o_totalprice: [223404], o_orderdate: [1995-06-23], o_orderpriority: [2-HIGH], o_clerk: [Clerk#000000237], o_shippriority: [0], o.c
25 consumer: removed 1498 recs from the pipe
26
27 n_nationkey: [17], n_name: [PERU], n_regionkey: [1], n_comment: [platelets. blithely pending dependencies use fluffily across the even pinto beans. carefully silent account]
28 n_nationkey: [15], n_name: [MOROCCO], n_regionkey: [0], n_comment: [rns. blithely bold courts among the closely regular packages use furiously bold platelets?]
29 n_nationkey: [9], n_name: [INDONESIA], n_regionkey: [2], n_comment: [ slyly express asymptotes. regular deposits haggle slyly. carefully ironic hockey players sleep blithely. carefull]
30 n_nationkey: [12], n_name: [JAPAN], n_regionkey: [2], n_comment: [ously. final, express gifts cajole a]
31 n_nationkey: [22], n_name: [RUSSIA], n_regionkey: [3], n_comment: [ requests against the platelets use never according to the quickly regular pint]
32 n_nationkey: [20], n_name: [SAUDI ARABIA], n_regionkey: [4], n_comment: [ts. silent requests haggle. closely express packages sleep across the blithely]
33 n_nationkey: [16], n_name: [MOZAMBIQUE], n_regionkey: [0], n_comment: [s. ironic, unusual asymptotes wake blithely r]
34 n_nationkey: [23], n_name: [UNITED KINGDOM], n_regionkey: [3], n_comment: [eans boost carefully special requests. accounts are. carefull]
35 n_nationkey: [21], n_name: [VIETNAM], n_regionkey: [2], n_comment: [hely enticingly express accounts. even, final ]
36 consumer: removed 25 recs from the pipe
37
```

Gtest result:

Steps of compiling and running gtest:

1. Make clean
2. Make gtest
3. ./gtest.out

There are five tests in the gtest.cc, the result is as follows.

```
qinxuanshi@qinxuanshi:~/Downloads/a2test$ ./gtest.out
[=====] Running 5 tests from 1 test suite.
[-----] Global test environment set-up.
[-----] 5 tests from TestMap
[ RUN    ] TestMap.bigQ_test_updateFirst1
test f start
exit from tear down
[ OK    ] TestMap.bigQ_test_updateFirst1 (0 ms)
[ RUN    ] TestMap.bigQ_test_updateFirst2
test f start
exit from tear down
[ OK    ] TestMap.bigQ_test_updateFirst2 (1 ms)
[ RUN    ] TestMap.bigQ_test_ComparisonM
test f start
exit from tear down
[ OK    ] TestMap.bigQ_test_ComparisonM (0 ms)
[ RUN    ] TestMap.bigQ_Test_OpenFile_Test
test f start
exit from tear down
[ OK    ] TestMap.bigQ_Test_OpenFile_Test (0 ms)
[ RUN    ] TestMap.bigQ_Test_CloseFile_Test
test f start
exit from tear down
[ OK    ] TestMap.bigQ_Test_CloseFile_Test (0 ms)
[-----] 5 tests from TestMap (2 ms total)

[-----] Global test environment tear-down
[=====] 5 tests from 1 test suite ran. (2 ms total)
[ PASSED ] 5 tests.
qinxuanshi@qinxuanshi:~/Downloads/a2test$
```