## Test functions

Test.1. we check that how many records are there in a CSV file and how many records have been inserted into the table.

Test.2. we check how many columns and records are there in a CSV file and the related table to make sure all records have been inserted into the tables in MySQL.

```
import unittest
from maintest import *

√ Run Test | ✓ Debug Test

class Test function youtube(unittest.TestCase):
   def test_import_rows_accuracy(self):
        tablename = 'Views_CA'
        actual_rows, isCorrect = check_import_accuracy(tablename,58881)
        self.assertEqual(actual_rows, 58881)
       self.assertEqual(isCorrect, 'correct')
   Run Test | Debug Test
   def test_rows_columns_accuracy(self):
       tablename = 'Views CA'
       isCorrect, actual_rows, actual_cols = check_row_columns_accuracy(tablename,58881,8)
       self.assertEqual(isCorrect, 'correct rows and columns')
       self.assertEqual(actual_rows, 58881)
       self.assertEqual(actual_cols, 8)
```

```
Run Test | Debug Test
   def test_rows_columns_accuracy2(self):
       tablename = 'Views_CA'
       expected_rows = count_num_records(tablename)
       expected_cols = count_num_columns (tablename)
       isCorrect, actual_rows, actual_cols = check_row_columns_accuracy(tablename, expected_rows, expected_c
       self.assertEqual(isCorrect, 'correct rows and columns')
       self.assertEqual(actual_rows, expected_rows)
       self.assertEqual(actual_cols, expected_cols)
   Run Test | Debug Test
   def test_num_csv_rows(self):
       filename = 'CAviews.csv
       results = count_csv_file_records(filename)
       self.assertEqual(results, 40882)
   Run Test | Debug Test
   def test_num_table_rows(self):
       tablename = 'Views_CA'
       results = count_num_records(tablename)
       self.assertEqual(results, 58881)
   def test num table cols(self):
       tablename = 'Views_CA'
       results = count_num_columns(tablename)
       self.assertEqual(results, 8)
if __name__ == '__main__':
   unittest.main()
```

Therefore, we have 6 testcases that have been processed by Unittest in Python and the results is ok.

```
import unittest
      from maintest import *
      Run Test | Debug Test
      class Test_function_youtube(unittest.TestCase):
          Run Test | Debug Test
          def test_import_rows_accuracy(self):
              tablename = 'Views CA'
              actual_rows, isCorrect = check_import_accuracy(tablename,58881)
              self.assertEqual(actual_rows, 58881)
              self.assertEqual(isCorrect, 'correct')
          Run Test | Debug Test
          def test_rows_columns_accuracy(self):
              tablename = 'Views_CA'
              isCorrect, actual_rows, actual_cols = check_row_columns_accuracy(tablename,58881,8)
              self.assertEqual(isCorrect, 'correct rows and columns')
              self.assertEqual(actual_rows, 58881)
              self.assertEqual(actual cols, 8)
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
[Running] python -u "d:\ece656\ece656_dataset\youtube\insert_date\test.py"
Ran 6 tests in 0.193s
OK
[Done] exited with code=0 in 0.586 seconds
```