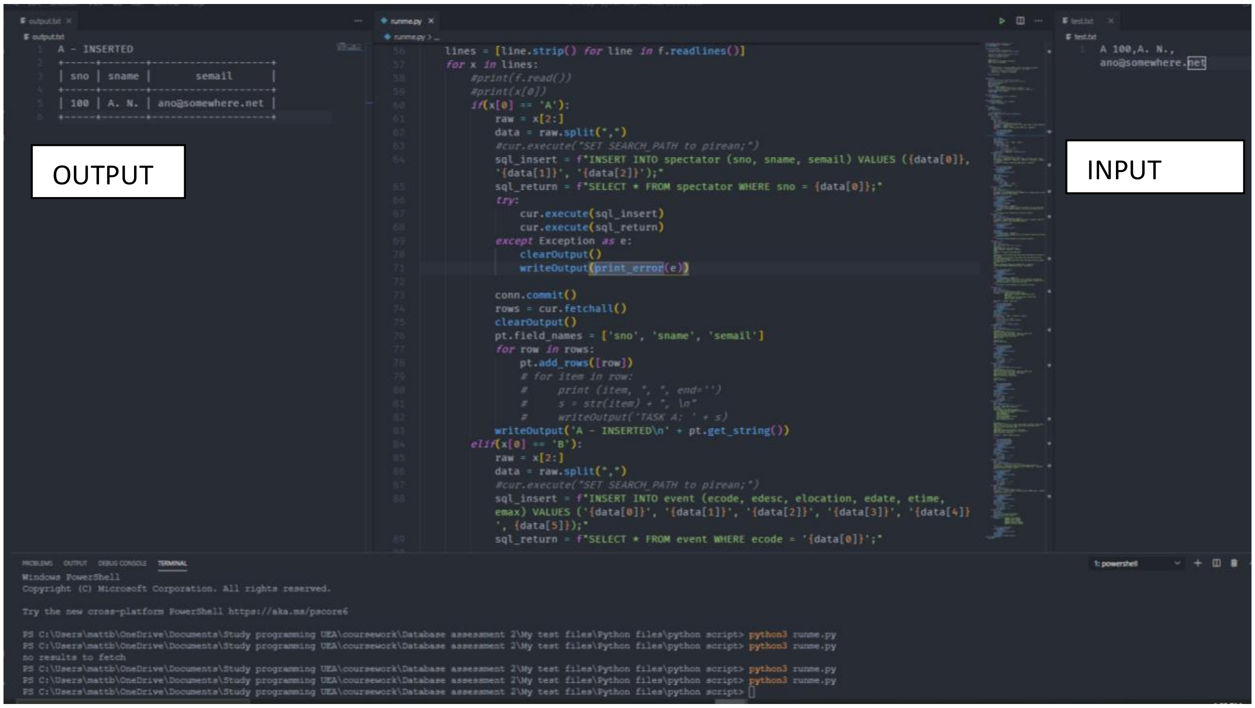
Python test results for each Task. Refer to python script or SQL queries in the SQL folder to see SQL queries for each task.

For original tables, refer to .sql test data file in ../SQL files/Tables-Test_data-DDL.sql

PYTHON TESTS:

TAKS A)

TEST 1 PASS A 100,A. N.,ano@somewhere.net



```
A - INSERTED
+-----+-------+-------------------+
| sno | sname |       semail      |
+-----+-------+-------------------+
| 100 | A. N. | ano@somewhere.net |
+-----+-------+-------------------+
```

```python
    lines = [line.strip() for line in f.readlines()]
    for x in lines:
        #print(f.read())
        #print(x[0])
        if(x[0] == 'A'):
            raw = x[2:]
            data = raw.split(",")
            #cur.execute("SET SEARCH_PATH to pirean;")
            sql_insert = f"INSERT INTO spectator (sno, sname, semail) VALUES ({data[0]},
            '{data[1]}', '{data[2]}');"
            sql_return = f"SELECT * FROM spectator WHERE sno = {data[0]};"
            try:
                cur.execute(sql_insert)
                cur.execute(sql_return)
            except Exception as e:
                clearOutput()
                writeOutput(print_error(e))

            conn.commit()
            rows = cur.fetchall()
            clearOutput()
            pt.field_names = ['sno', 'sname', 'semail']
            for row in rows:
                pt.add_rows([row])
                # for item in row:
                #     print (item, ", ", end='')
                #     s = str(item) + ", \n"
                #     writeOutput('TASK A: ' + s)
            writeOutput('A - INSERTED\n' + pt.get_string())
        elif(x[0] == 'B'):
            raw = x[2:]
            data = raw.split(",")
            #cur.execute("SET SEARCH_PATH to pirean;")
            sql_insert = f"INSERT INTO event (ecode, edesc, elocation, edate, etime,
            emax) VALUES ('{data[0]}', '{data[1]}', '{data[2]}', '{data[3]}', '{data[4]}
            ', {data[5]});"
            sql_return = f"SELECT * FROM event WHERE ecode = '{data[0]}';"
```

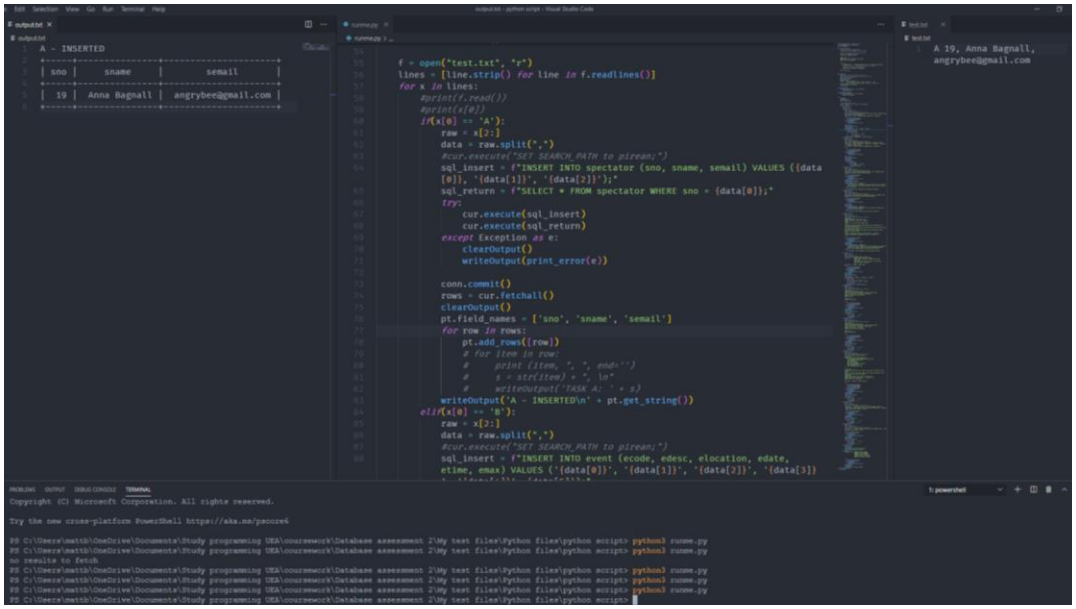
```
A 100,A. N.,
ano@somewhere.net
```

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
no results to fetch
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> 
```

TEST 2 PASS A 19, Anna Bagnall, angrybee@gmail.com



```
A - INSERTED
+-----+--------------+--------------------+
| sno |    sname     |       semail       |
+-----+--------------+--------------------+
|  19 | Anna Bagnall | angrybee@gmail.com |
+-----+--------------+--------------------+
```

```python
f = open("test.txt", "r")
lines = [line.strip() for line in f.readlines()]
for x in lines:
    #print(f.read())
    #print(x[0])
    if(x[0] == 'A'):
        raw = x[2:]
        data = raw.split(",")
        #cur.execute("SET SEARCH_PATH to pirean;")
        sql_insert = f"INSERT INTO spectator (sno, sname, semail) VALUES ({data
        [0]}, '{data[1]}', '{data[2]}');"
        sql_return = f"SELECT * FROM spectator WHERE sno = {data[0]};"
        try:
            cur.execute(sql_insert)
            cur.execute(sql_return)
        except Exception as e:
            clearOutput()
            writeOutput(print_error(e))

        conn.commit()
        rows = cur.fetchall()
        clearOutput()
        pt.field_names = ['sno', 'sname', 'semail']
        for row in rows:
            pt.add_rows([row])
            # for item in row:
            #     print (item, ", ", end='')
            #     s = str(item) + ", \n"
            #     writeOutput('TASK A: ' + s)
        writeOutput('A - INSERTED\n' + pt.get_string())
    elif(x[0] == 'B'):
        raw = x[2:]
        data = raw.split(",")
        #cur.execute("SET SEARCH_PATH to pirean;")
        sql_insert = f"INSERT INTO event (ecode, edesc, elocation, edate,
        etime, emax) VALUES ('{data[0]}', '{data[1]}', '{data[2]}', '{data[3]}
```

```
A 19, Anna Bagnall,
angrybee@gmail.com
```

```
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
no results to fetch
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script>
```
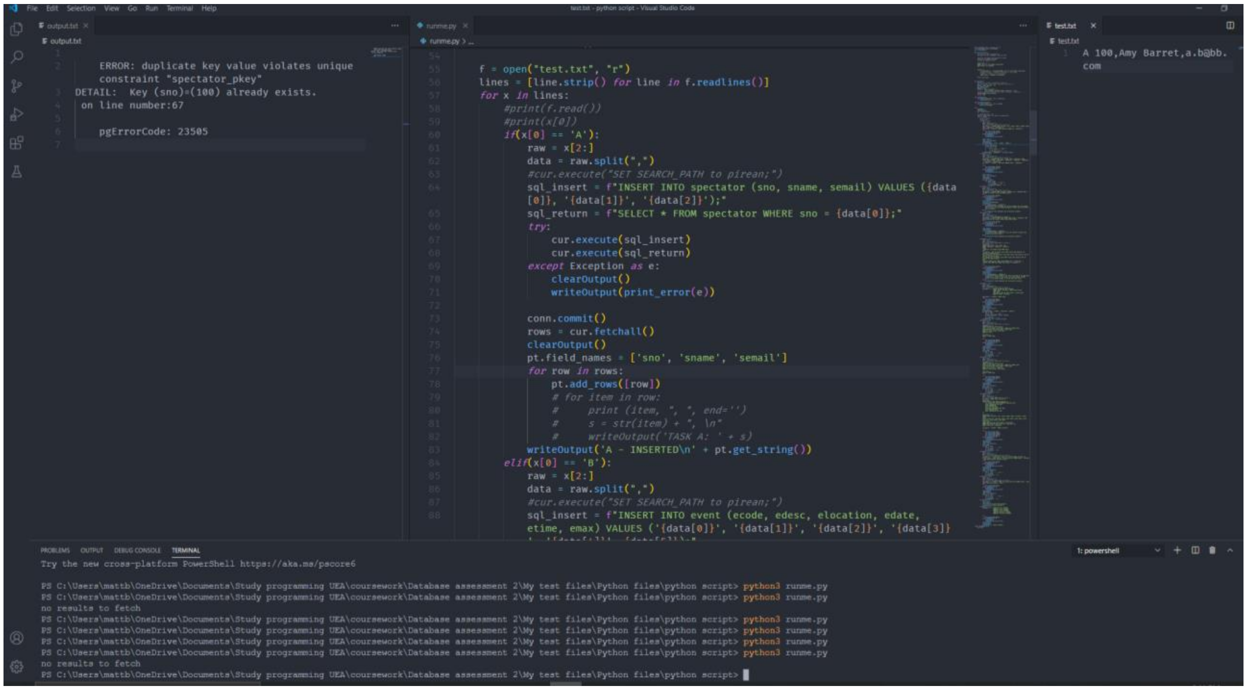

TEST 3 FAIL (tno already exists) A 100,Amy Barret,a.b@bb.com



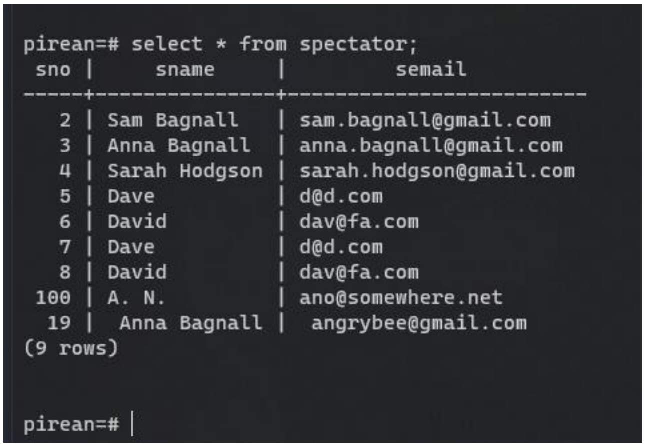
```
   ERROR: duplicate key value violates unique
   constraint "spectator_pkey"
DETAIL:  Key (sno)=(100) already exists.
 on line number:67

   pgErrorCode: 23505
```

```python
f = open("test.txt", "r")
lines = [line.strip() for line in f.readlines()]
for x in lines:
    #print(f.read())
    #print(x[0])
    if(x[0] == 'A'):
        raw = x[2:]
        data = raw.split(",")
        #cur.execute("SET SEARCH_PATH to pirean;")
        sql_insert = f"INSERT INTO spectator (sno, sname, semail) VALUES ({data
        [0]}, '{data[1]}', '{data[2]}');"
        sql_return = f"SELECT * FROM spectator WHERE sno = {data[0]};"
        try:
            cur.execute(sql_insert)
            cur.execute(sql_return)
        except Exception as e:
            clearOutput()
            writeOutput(print_error(e))

        conn.commit()
        rows = cur.fetchall()
        clearOutput()
        pt.field_names = ['sno', 'sname', 'semail']
        for row in rows:
            pt.add_rows([row])
            # for item in row:
            #     print (item, ", ", end='')
            #     s = str(item) + ", \n"
            #     writeOutput('TASK A: ' + s)
        writeOutput('A - INSERTED\n' + pt.get_string())
    elif(x[0] == 'B'):
        raw = x[2:]
        data = raw.split(",")
        #cur.execute("SET SEARCH_PATH to pirean;")
        sql_insert = f"INSERT INTO event (ecode, edesc, elocation, edate,
        etime, emax) VALUES ('{data[0]}', '{data[1]}', '{data[2]}', '{data[3]}
```

```
A 100,Amy Barret,a.b@bb.
com
```

```
Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
no results to fetch
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
no results to fetch
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script>
```

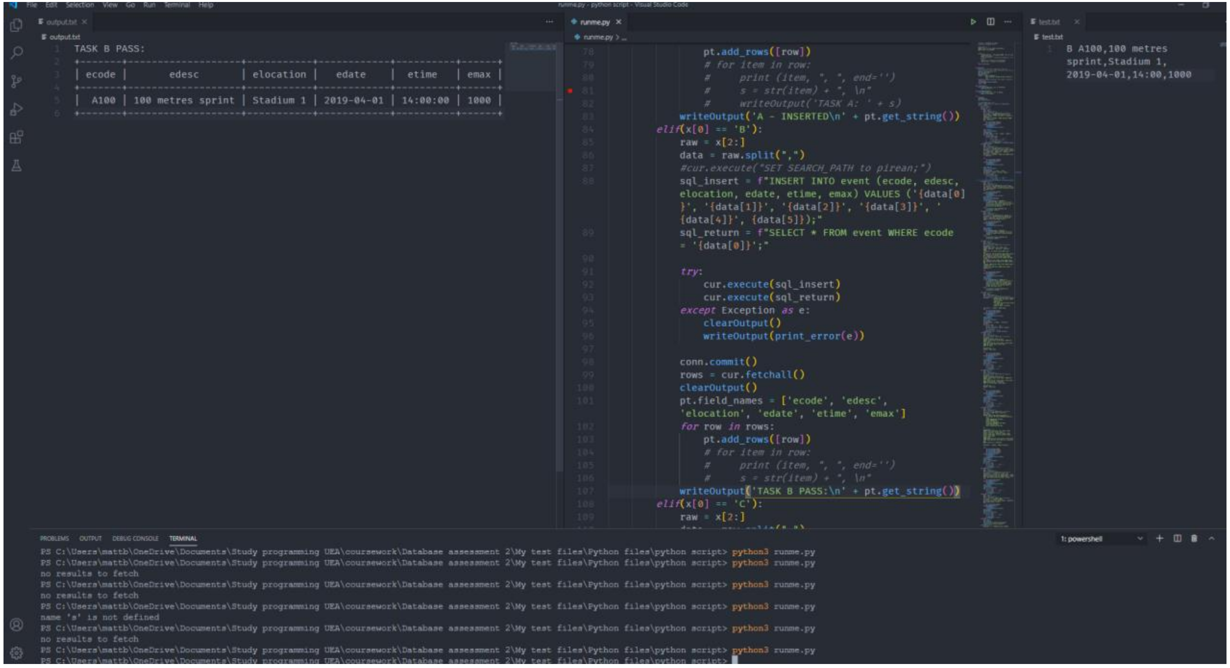
Final spectator table for comparison:



```
pirean=# select * from spectator;
 sno |     sname     |         semail
-----+---------------+------------------------
   2 | Sam Bagnall   | sam.bagnall@gmail.com
   3 | Anna Bagnall  | anna.bagnall@gmail.com
   4 | Sarah Hodgson | sarah.hodgson@gmail.com
   5 | Dave          | d@d.com
   6 | David         | dav@fa.com
   7 | Dave          | d@d.com
   8 | David         | dav@fa.com
 100 | A. N.         | ano@somewhere.net
  19 |  Anna Bagnall |  angrybee@gmail.com
(9 rows)


pirean=# 
```

TAKS B)

TEST 1 PASS B A100,100 metres sprint,Stadium 1,2019-04-01,14:00,1000



output.txt

```
TASK B PASS:
+-------+-------------------+------------+------------+----------+------+
| ecode |       edesc       | elocation  |   edate    |  etime   | emax |
+-------+-------------------+------------+------------+----------+------+
|  A100 | 100 metres sprint | Stadium 1  | 2019-04-01 | 14:00:00 | 1000 |
+-------+-------------------+------------+------------+----------+------+
```

runme.py

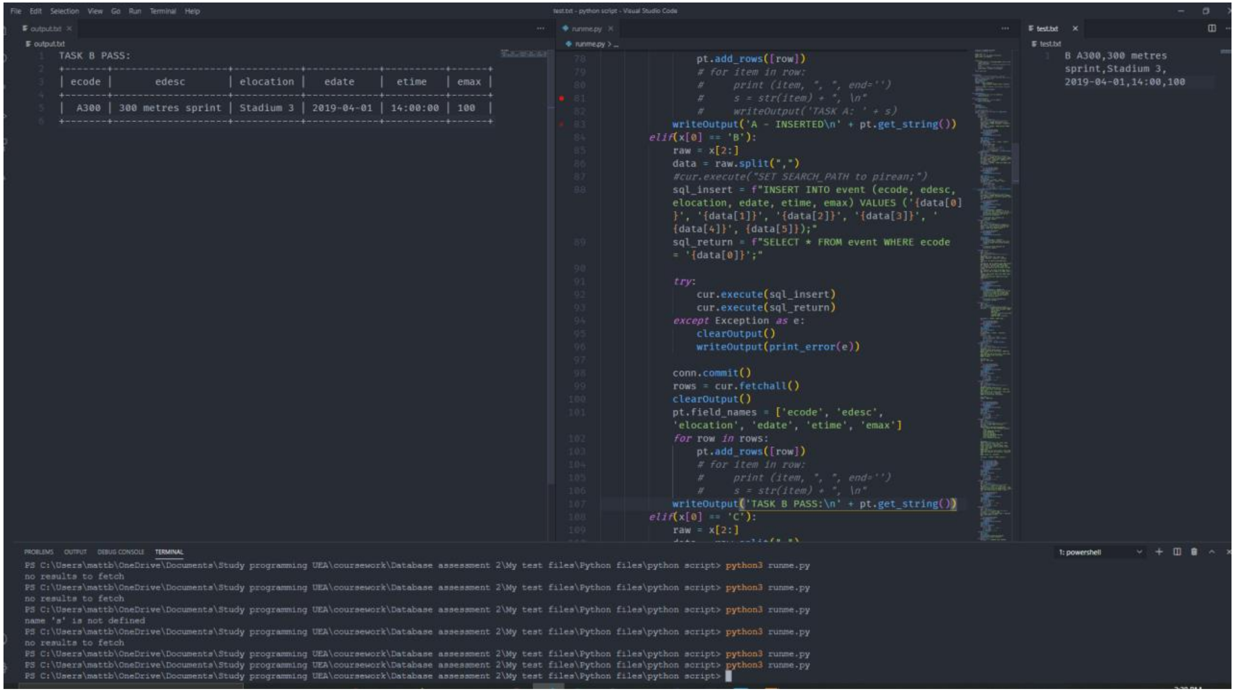
```
                pt.add_rows([row])
                # for item in row:
                #     print (item, ", ", end='')
                #     s = str(item) + ", \n"
                #     writeOutput('TASK A: ' + s)
            writeOutput('A - INSERTED\n' + pt.get_string())
        elif(x[0] == 'B'):
            raw = x[2:]
            data = raw.split(",")
            #cur.execute("SET SEARCH_PATH to pirean;")
            sql_insert = f"INSERT INTO event (ecode, edesc, elocation, edate, etime, emax) VALUES ('{data[0]}', '{data[1]}', '{data[2]}', '{data[3]}', '{data[4]}', {data[5]});"
            sql_return = f"SELECT * FROM event WHERE ecode = '{data[0]}';"

            try:
                cur.execute(sql_insert)
                cur.execute(sql_return)
            except Exception as e:
                clearOutput()
                writeOutput(print_error(e))

            conn.commit()
            rows = cur.fetchall()
            clearOutput()
            pt.field_names = ['ecode', 'edesc', 'elocation', 'edate', 'etime', 'emax']
            for row in rows:
                pt.add_rows([row])
                # for item in row:
                #     print (item, ", ", end='')
                #     s = str(item) + ", \n"
            writeOutput('TASK B PASS:\n' + pt.get_string())
        elif(x[0] == 'C'):
            raw = x[2:]
```

test.txt

```
B A100,100 metres sprint,Stadium 1,2019-04-01,14:00,1000
```

```
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
no results to fetch
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
no results to fetch
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
name 's' is not defined
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
no results to fetch
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> 
```

TEST 2 PASS B A300,300 metres sprint,Stadium 3,2019-04-01,14:00,100


File Edit Selection View Go Run Terminal Help
test.txt - python script - Visual Studio Code
output.txt
runme.py
runme.py > ...
test.txt
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
1: powershell

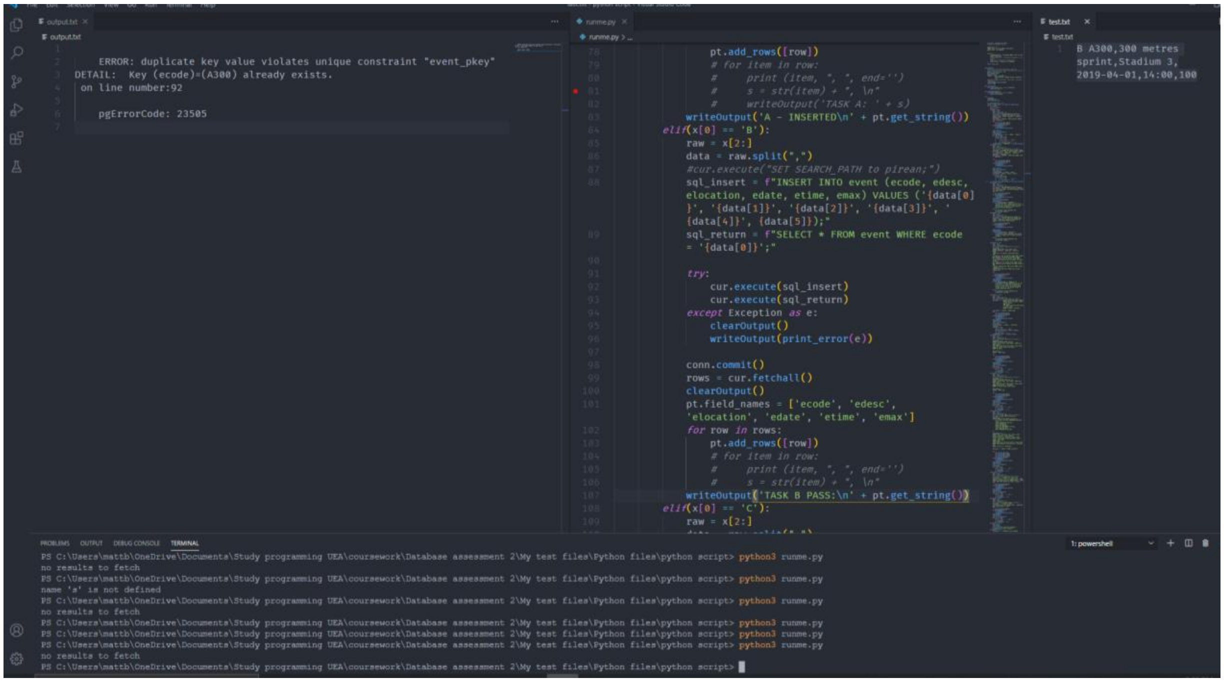
```
TASK B PASS:
+-------+-------------------+------------+------------+----------+------+
| ecode |       edesc       | elocation  |   edate    |  etime   | emax |
+-------+-------------------+------------+------------+----------+------+
|  A300 | 300 metres sprint | Stadium 3  | 2019-04-01 | 14:00:00 | 100  |
+-------+-------------------+------------+------------+----------+------+
```

```
                pt.add_rows([row])
                # for item in row:
                #     print (item, ", ", end='')
                #     s = str(item) + ", \n"
                #     writeOutput('TASK A: ' + s)
            writeOutput('A - INSERTED\n' + pt.get_string())
        elif(x[0] == 'B'):
            raw = x[2:]
            data = raw.split(",")
            #cur.execute("SET SEARCH_PATH to pirean;")
            sql_insert = f"INSERT INTO event (ecode, edesc,
            elocation, edate, etime, emax) VALUES ('{data[0]
            }', '{data[1]}', '{data[2]}', '{data[3]}', '
            {data[4]}', {data[5]});"
            sql_return = f"SELECT * FROM event WHERE ecode
            = '{data[0]}';"

            try:
                cur.execute(sql_insert)
                cur.execute(sql_return)
            except Exception as e:
                clearOutput()
                writeOutput(print_error(e))

            conn.commit()
            rows = cur.fetchall()
            clearOutput()
            pt.field_names = ['ecode', 'edesc',
            'elocation', 'edate', 'etime', 'emax']
            for row in rows:
                pt.add_rows([row])
                # for item in row:
                #     print (item, ", ", end='')
                #     s = str(item) + ", \n"
            writeOutput('TASK B PASS:\n' + pt.get_string())
        elif(x[0] == 'C'):
            raw = x[2:]
```

```
B A300,300 metres
sprint,Stadium 3,
2019-04-01,14:00,100
```

```
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
no results to fetch
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
no results to fetch
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
name 's' is not defined
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
no results to fetch
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script>
```

TEST 3 FAIL (Duplicate event) B A300,300 metres sprint,Stadium 3,2019-04-01,14:00,100



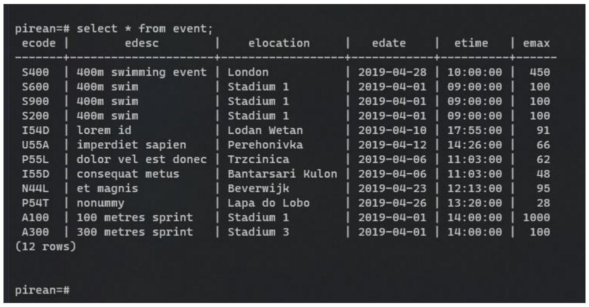
```

    ERROR: duplicate key value violates unique constraint "event_pkey"
DETAIL:  Key (ecode)=(A300) already exists.
 on line number:92

    pgErrorCode: 23505
```

```
                pt.add_rows([row])
                # for item in row:
                #     print (item, ", ", end='')
                #     s = str(item) + ", \n"
                #     writeOutput('TASK A: ' + s)
            writeOutput('A - INSERTED\n' + pt.get_string())
        elif(x[0] == 'B'):
            raw = x[2:]
            data = raw.split(",")
            #cur.execute("SET SEARCH_PATH to pirean;")
            sql_insert = f"INSERT INTO event (ecode, edesc,
            elocation, edate, etime, emax) VALUES ('{data[0]
            }', '{data[1]}', '{data[2]}', '{data[3]}', '
            {data[4]}', {data[5]});"
            sql_return = f"SELECT * FROM event WHERE ecode
            = '{data[0]}';"

            try:
                cur.execute(sql_insert)
                cur.execute(sql_return)
            except Exception as e:
                clearOutput()
                writeOutput(print_error(e))

            conn.commit()
            rows = cur.fetchall()
            clearOutput()
            pt.field_names = ['ecode', 'edesc',
            'elocation', 'edate', 'etime', 'emax']
            for row in rows:
                pt.add_rows([row])
                # for item in row:
                #     print (item, ", ", end='')
                #     s = str(item) + ", \n"
            writeOutput('TASK B PASS:\n' + pt.get_string())
        elif(x[0] == 'C'):
            raw = x[2:]
```

```
B A300,300 metres
sprint,Stadium 3,
2019-04-01,14:00,100
```

```
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
no results to fetch
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
name 's' is not defined
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
no results to fetch
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
no results to fetch
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script>
```

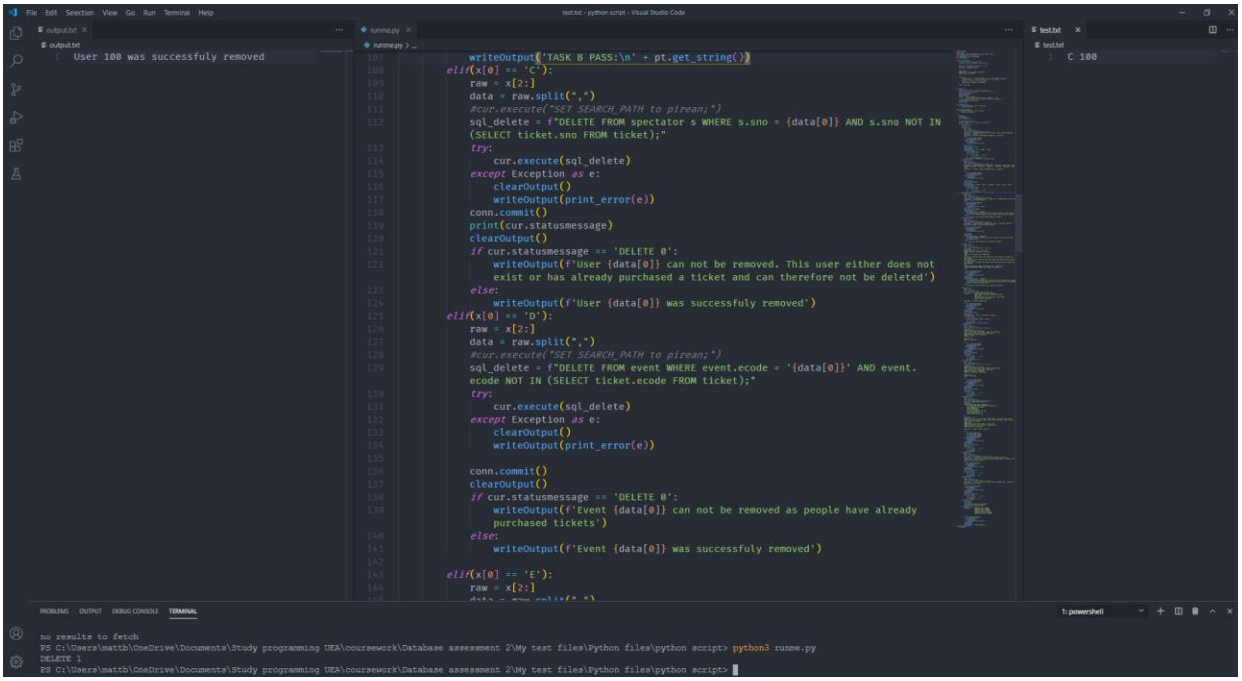
Final event table for comparison:



```
pirean=# select * from event;
 ecode |        edesc        |    elocation     |   edate    |  etime   | emax
-------+---------------------+------------------+------------+----------+------
 S400  | 400m swimming event | London           | 2019-04-28 | 10:00:00 |  450
 S600  | 400m swim           | Stadium 1        | 2019-04-01 | 09:00:00 |  100
 S900  | 400m swim           | Stadium 1        | 2019-04-01 | 09:00:00 |  100
 S200  | 400m swim           | Stadium 1        | 2019-04-01 | 09:00:00 |  100
 I54D  | lorem id            | Lodan Wetan      | 2019-04-10 | 17:55:00 |   91
 U55A  | imperdiet sapien    | Perehonivka      | 2019-04-12 | 14:26:00 |   66
 P55L  | dolor vel est donec | Trzcinica        | 2019-04-06 | 11:03:00 |   62
 I55D  | consequat metus     | Bantarsari Kulon | 2019-04-06 | 11:03:00 |   48
 N44L  | et magnis           | Beverwijk        | 2019-04-23 | 12:13:00 |   95
 P54T  | nonummy             | Lapa do Lobo     | 2019-04-26 | 13:20:00 |   28
 A100  | 100 metres sprint   | Stadium 1        | 2019-04-01 | 14:00:00 | 1000
 A300  | 300 metres sprint   | Stadium 3        | 2019-04-01 | 14:00:00 |  100
(12 rows)


pirean=#
```

TAKS C)

TEST 1 PASS C 100 (Spectator does not have any tickets)



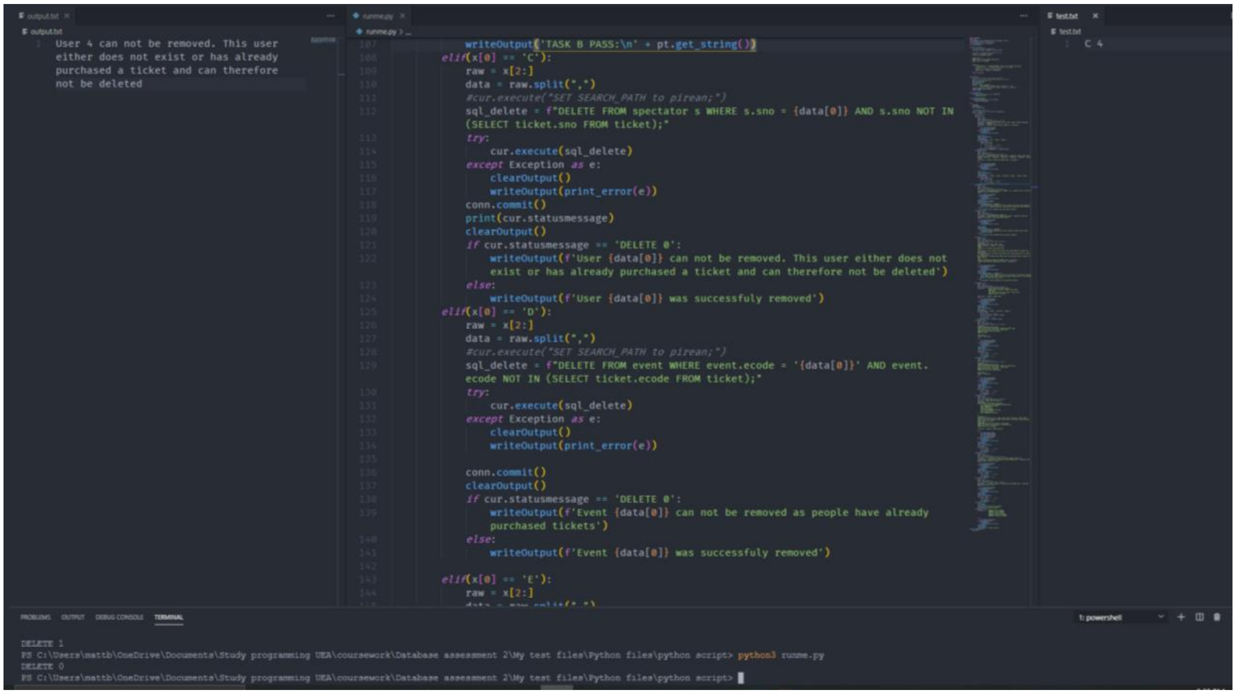
```
User 100 was successfuly removed
```

```python
            writeOutput('TASK B PASS:\n' + pt.get_string())
        elif(x[0] == 'C'):
            raw = x[2:]
            data = raw.split(",")
            #cur.execute("SET SEARCH_PATH to pirean;")
            sql_delete = f"DELETE FROM spectator s WHERE s.sno = {data[0]} AND s.sno NOT IN (SELECT ticket.sno FROM ticket);"
            try:
                cur.execute(sql_delete)
            except Exception as e:
                clearOutput()
                writeOutput(print_error(e))
            conn.commit()
            print(cur.statusmessage)
            clearOutput()
            if cur.statusmessage == 'DELETE 0':
                writeOutput(f'User {data[0]} can not be removed. This user either does not exist or has already purchased a ticket and can therefore not be deleted')
            else:
                writeOutput(f'User {data[0]} was successfuly removed')
        elif(x[0] == 'D'):
            raw = x[2:]
            data = raw.split(",")
            #cur.execute("SET SEARCH_PATH to pirean;")
            sql_delete = f"DELETE FROM event WHERE event.ecode = '{data[0]}' AND event.ecode NOT IN (SELECT ticket.ecode FROM ticket);"
            try:
                cur.execute(sql_delete)
            except Exception as e:
                clearOutput()
                writeOutput(print_error(e))

            conn.commit()
            clearOutput()
            if cur.statusmessage == 'DELETE 0':
                writeOutput(f'Event {data[0]} can not be removed as people have already purchased tickets')
            else:
                writeOutput(f'Event {data[0]} was successfuly removed')

        elif(x[0] == 'E'):
            raw = x[2:]
```

```
C 100
```

```
no results to fetch
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
DELETE 1
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script>
```

TEST 2 FAIL C 4 (Spectator has already purchased tickets so can not be deleted)



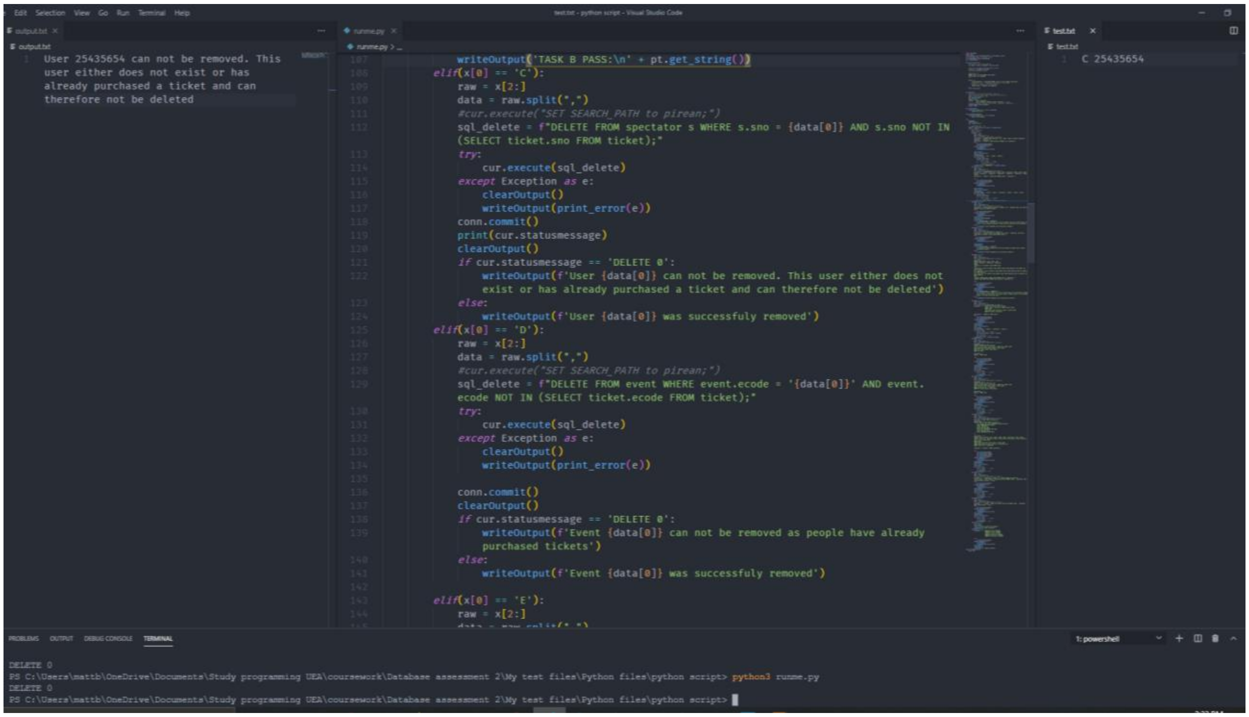
```
User 4 can not be removed. This user either does not exist or has already purchased a ticket and can therefore not be deleted
```

```
C 4
```

```python
        writeOutput('TASK B PASS:\n' + pt.get_string())
    elif(x[0] == 'C'):
        raw = x[2:]
        data = raw.split(",")
        #cur.execute("SET SEARCH_PATH to pirean;")
        sql_delete = f"DELETE FROM spectator s WHERE s.sno = {data[0]} AND s.sno NOT IN (SELECT ticket.sno FROM ticket);"
        try:
            cur.execute(sql_delete)
        except Exception as e:
            clearOutput()
            writeOutput(print_error(e))
        conn.commit()
        print(cur.statusmessage)
        clearOutput()
        if cur.statusmessage == 'DELETE 0':
            writeOutput(f'User {data[0]} can not be removed. This user either does not exist or has already purchased a ticket and can therefore not be deleted')
        else:
            writeOutput(f'User {data[0]} was successfuly removed')
    elif(x[0] == 'D'):
        raw = x[2:]
        data = raw.split(",")
        #cur.execute("SET SEARCH_PATH to pirean;")
        sql_delete = f"DELETE FROM event WHERE event.ecode = '{data[0]}' AND event.ecode NOT IN (SELECT ticket.ecode FROM ticket);"
        try:
            cur.execute(sql_delete)
        except Exception as e:
            clearOutput()
            writeOutput(print_error(e))

        conn.commit()
        clearOutput()
        if cur.statusmessage == 'DELETE 0':
            writeOutput(f'Event {data[0]} can not be removed as people have already purchased tickets')
        else:
            writeOutput(f'Event {data[0]} was successfuly removed')

    elif(x[0] == 'E'):
        raw = x[2:]
```

```
DELETE 1
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
DELETE 0
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script>
```

TEST 3 FAIL C 25435654 (spectator does not exist)



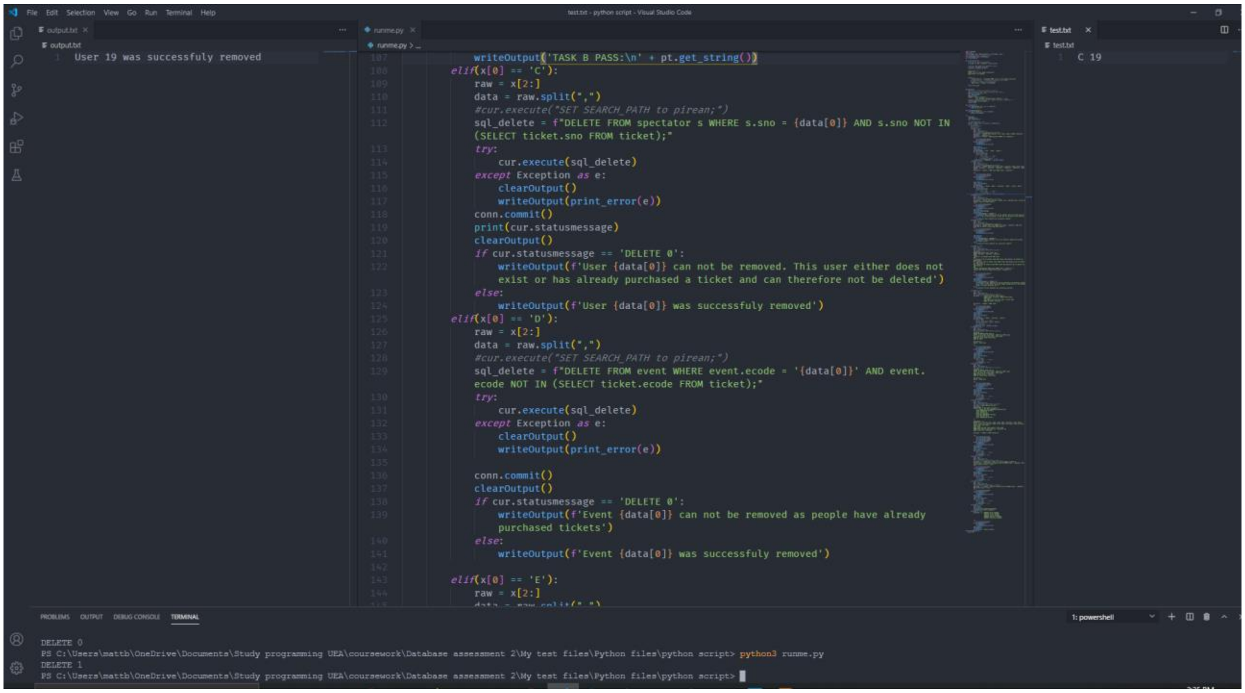
```
User 25435654 can not be removed. This user either does not exist or has already purchased a ticket and can therefore not be deleted
```

```
C 25435654
```

```python
        writeOutput('TASK B PASS:\n' + pt.get_string())
    elif(x[0] == 'C'):
        raw = x[2:]
        data = raw.split(",")
        #cur.execute("SET SEARCH_PATH to pirean;")
        sql_delete = f"DELETE FROM spectator s WHERE s.sno = {data[0]} AND s.sno NOT IN (SELECT ticket.sno FROM ticket);"
        try:
            cur.execute(sql_delete)
        except Exception as e:
            clearOutput()
            writeOutput(print_error(e))
        conn.commit()
        print(cur.statusmessage)
        clearOutput()
        if cur.statusmessage == 'DELETE 0':
            writeOutput(f'User {data[0]} can not be removed. This user either does not exist or has already purchased a ticket and can therefore not be deleted')
        else:
            writeOutput(f'User {data[0]} was successfuly removed')
    elif(x[0] == 'D'):
        raw = x[2:]
        data = raw.split(",")
        #cur.execute("SET SEARCH_PATH to pirean;")
        sql_delete = f"DELETE FROM event WHERE event.ecode = '{data[0]}' AND event.ecode NOT IN (SELECT ticket.ecode FROM ticket);"
        try:
            cur.execute(sql_delete)
        except Exception as e:
            clearOutput()
            writeOutput(print_error(e))

        conn.commit()
        clearOutput()
        if cur.statusmessage == 'DELETE 0':
            writeOutput(f'Event {data[0]} can not be removed as people have already purchased tickets')
        else:
            writeOutput(f'Event {data[0]} was successfuly removed')

    elif(x[0] == 'E'):
        raw = x[2:]
```

```
DELETE 0
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
DELETE 0
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script>
```

TEST 4 PASS C 19 (spectator does not have any tickets)



output.txt

```
User 19 was successfuly removed
```

runme.py

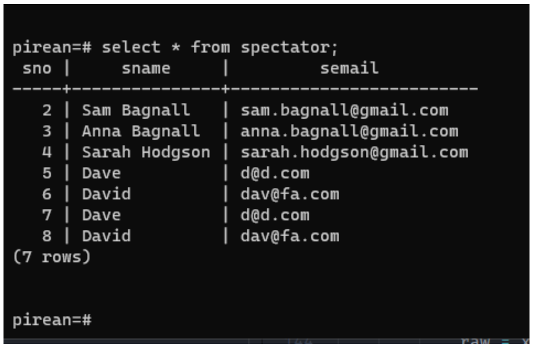
```python
                writeOutput('TASK B PASS:\n' + pt.get_string())
            elif(x[0] == 'C'):
                raw = x[2:]
                data = raw.split(",")
                #cur.execute("SET SEARCH_PATH to pirean;")
                sql_delete = f"DELETE FROM spectator s WHERE s.sno = {data[0]} AND s.sno NOT IN
                (SELECT ticket.sno FROM ticket);"
                try:
                    cur.execute(sql_delete)
                except Exception as e:
                    clearOutput()
                    writeOutput(print_error(e))
                conn.commit()
                print(cur.statusmessage)
                clearOutput()
                if cur.statusmessage == 'DELETE 0':
                    writeOutput(f'User {data[0]} can not be removed. This user either does not
                    exist or has already purchased a ticket and can therefore not be deleted')
                else:
                    writeOutput(f'User {data[0]} was successfuly removed')
            elif(x[0] == 'D'):
                raw = x[2:]
                data = raw.split(",")
                #cur.execute("SET SEARCH_PATH to pirean;")
                sql_delete = f"DELETE FROM event WHERE event.ecode = '{data[0]}' AND event.
                ecode NOT IN (SELECT ticket.ecode FROM ticket);"
                try:
                    cur.execute(sql_delete)
                except Exception as e:
                    clearOutput()
                    writeOutput(print_error(e))

                conn.commit()
                clearOutput()
                if cur.statusmessage == 'DELETE 0':
                    writeOutput(f'Event {data[0]} can not be removed as people have already
                    purchased tickets')
                else:
                    writeOutput(f'Event {data[0]} was successfuly removed')

            elif(x[0] == 'E'):
                raw = x[2:]
                data = raw.split(",")
```

test.txt

```
C 19
```

```
DELETE 0
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
DELETE 1
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script>
```

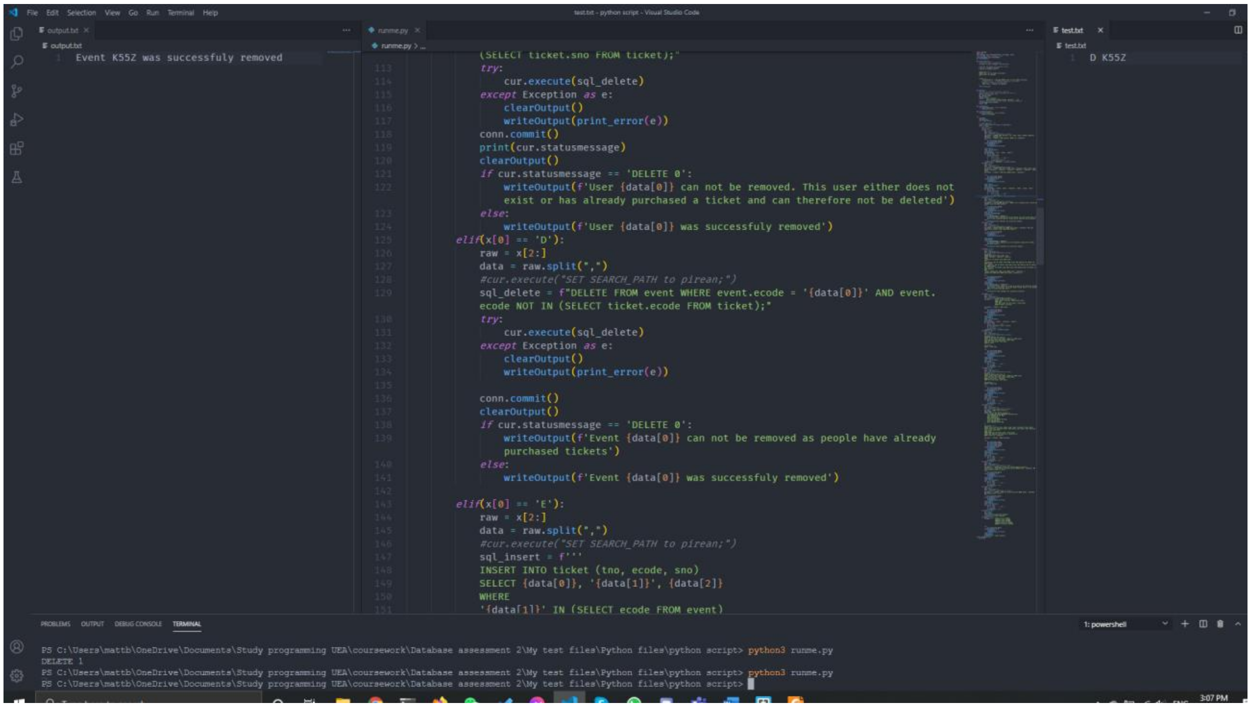
Final spectator table for proof of deletion. Remember that we deleted spectators that were added in task A, so the table has returned to normal.



```
pirean=# select * from spectator;
 sno |     sname     |         semail
-----+---------------+-------------------------
   2 | Sam Bagnall   | sam.bagnall@gmail.com
   3 | Anna Bagnall  | anna.bagnall@gmail.com
   4 | Sarah Hodgson | sarah.hodgson@gmail.com
   5 | Dave          | d@d.com
   6 | David         | dav@fa.com
   7 | Dave          | d@d.com
   8 | David         | dav@fa.com
(7 rows)


pirean=#
```

TAKS D)

TEST 1 PASS D K55Z (Event can be deleted as no tickets have been sold to the event)



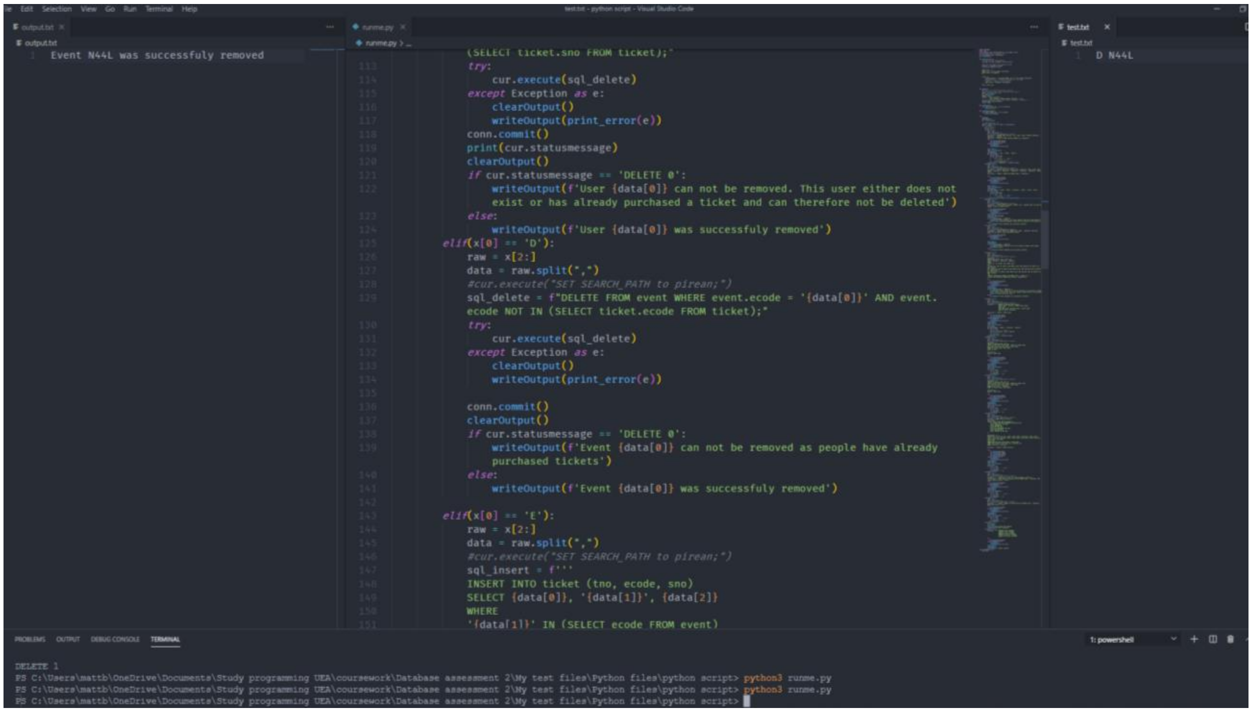
```
Event K55Z was successfuly removed
```

```
            (SELECT ticket.sno FROM ticket);"
            try:
                cur.execute(sql_delete)
            except Exception as e:
                clearOutput()
                writeOutput(print_error(e))
            conn.commit()
            print(cur.statusmessage)
            clearOutput()
            if cur.statusmessage == 'DELETE 0':
                writeOutput(f'User {data[0]} can not be removed. This user either does not
                exist or has already purchased a ticket and can therefore not be deleted')
            else:
                writeOutput(f'User {data[0]} was successfuly removed')
        elif(x[0] == 'D'):
            raw = x[2:]
            data = raw.split(",")
            #cur.execute("SET SEARCH_PATH to pirean;")
            sql_delete = f"DELETE FROM event WHERE event.ecode = '{data[0]}' AND event.
            ecode NOT IN (SELECT ticket.ecode FROM ticket);"
            try:
                cur.execute(sql_delete)
            except Exception as e:
                clearOutput()
                writeOutput(print_error(e))

            conn.commit()
            clearOutput()
            if cur.statusmessage == 'DELETE 0':
                writeOutput(f'Event {data[0]} can not be removed as people have already
                purchased tickets')
            else:
                writeOutput(f'Event {data[0]} was successfuly removed')

        elif(x[0] == 'E'):
            raw = x[2:]
            data = raw.split(",")
            #cur.execute("SET SEARCH_PATH to pirean;")
            sql_insert = f'''
            INSERT INTO ticket (tno, ecode, sno)
            SELECT {data[0]}, '{data[1]}', {data[2]}
            WHERE
            '{data[1]}' IN (SELECT ecode FROM event)
```

```
D K55Z
```

```
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
DELETE 1
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script>
```

TEST 2 PASS D N44L (No tickets have ben sold for this event)



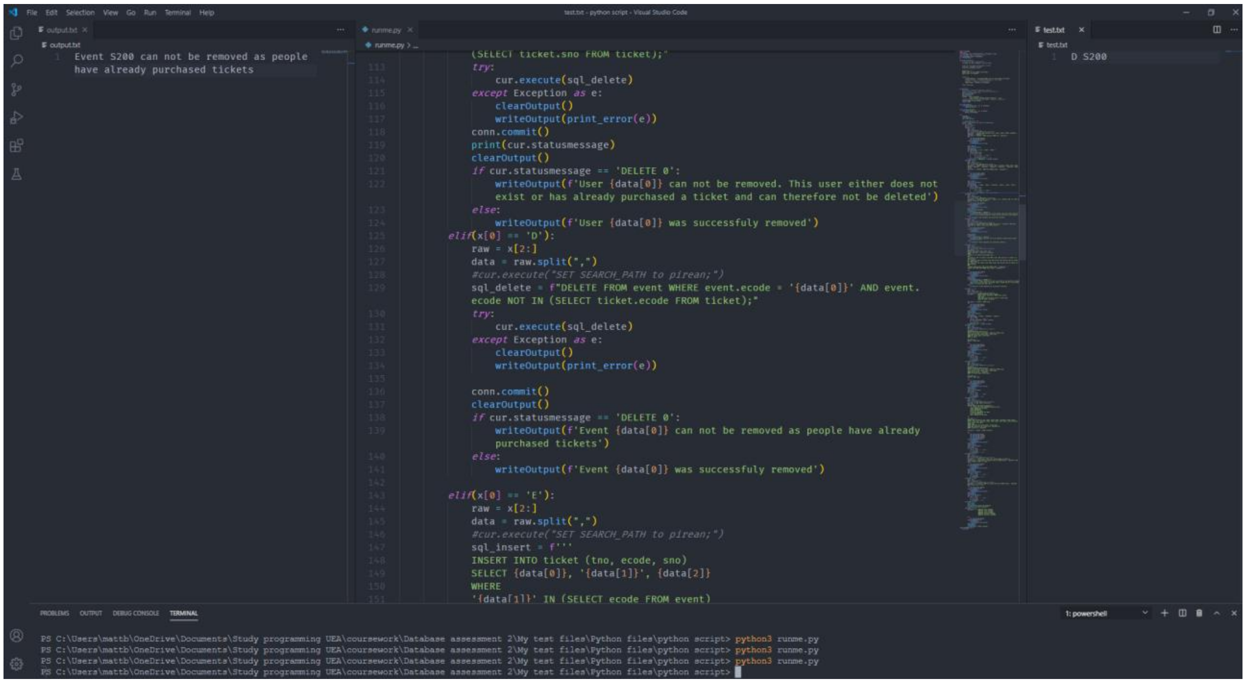
```
Event N44L was successfuly removed
```

```
            (SELECT ticket.sno FROM ticket);"
            try:
                cur.execute(sql_delete)
            except Exception as e:
                clearOutput()
                writeOutput(print_error(e))
            conn.commit()
            print(cur.statusmessage)
            clearOutput()
            if cur.statusmessage == 'DELETE 0':
                writeOutput(f'User {data[0]} can not be removed. This user either does not
                exist or has already purchased a ticket and can therefore not be deleted')
            else:
                writeOutput(f'User {data[0]} was successfuly removed')
        elif(x[0] == 'D'):
            raw = x[2:]
            data = raw.split(",")
            #cur.execute("SET SEARCH_PATH to pirean;")
            sql_delete = f"DELETE FROM event WHERE event.ecode = '{data[0]}' AND event.
            ecode NOT IN (SELECT ticket.ecode FROM ticket);"
            try:
                cur.execute(sql_delete)
            except Exception as e:
                clearOutput()
                writeOutput(print_error(e))

            conn.commit()
            clearOutput()
            if cur.statusmessage == 'DELETE 0':
                writeOutput(f'Event {data[0]} can not be removed as people have already
                purchased tickets')
            else:
                writeOutput(f'Event {data[0]} was successfuly removed')

        elif(x[0] == 'E'):
            raw = x[2:]
            data = raw.split(",")
            #cur.execute("SET SEARCH_PATH to pirean;")
            sql_insert = f'''
            INSERT INTO ticket (tno, ecode, sno)
            SELECT {data[0]}, '{data[1]}', {data[2]}
            WHERE
            '{data[1]}' IN (SELECT ecode FROM event)
```

```
D N44L
```

```
DELETE 1
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script>
```

TEST 3 FAIL D S200 (Tickets have been sold to the event already)



File Edit Selection View Go Run Terminal Help
output.txt
runme.py
test.txt - python script - Visual Studio Code
test.txt
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
1: powershell

output.txt

```
Event S200 can not be removed as people
have already purchased tickets
```

runme.py

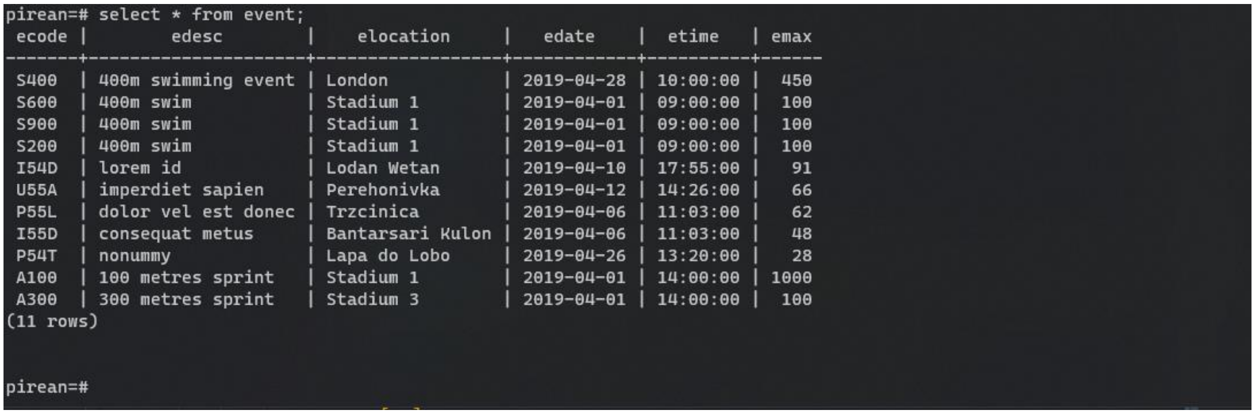
```
        (SELECT ticket.sno FROM ticket);"
        try:
            cur.execute(sql_delete)
        except Exception as e:
            clearOutput()
            writeOutput(print_error(e))
        conn.commit()
        print(cur.statusmessage)
        clearOutput()
        if cur.statusmessage == 'DELETE 0':
            writeOutput(f'User {data[0]} can not be removed. This user either does not
            exist or has already purchased a ticket and can therefore not be deleted')
        else:
            writeOutput(f'User {data[0]} was successfuly removed')
    elif(x[0] == 'D'):
        raw = x[2:]
        data = raw.split(",")
        #cur.execute("SET SEARCH_PATH to pirean;")
        sql_delete = f"DELETE FROM event WHERE event.ecode = '{data[0]}' AND event.
        ecode NOT IN (SELECT ticket.ecode FROM ticket);"
        try:
            cur.execute(sql_delete)
        except Exception as e:
            clearOutput()
            writeOutput(print_error(e))

        conn.commit()
        clearOutput()
        if cur.statusmessage == 'DELETE 0':
            writeOutput(f'Event {data[0]} can not be removed as people have already
            purchased tickets')
        else:
            writeOutput(f'Event {data[0]} was successfuly removed')

    elif(x[0] == 'E'):
        raw = x[2:]
        data = raw.split(",")
        #cur.execute("SET SEARCH_PATH to pirean;")
        sql_insert = f'''
        INSERT INTO ticket (tno, ecode, sno)
        SELECT {data[0]}, '{data[1]}', {data[2]}
        WHERE
        '{data[1]}' IN (SELECT ecode FROM event)
```

test.txt

```
D S200
```

```
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script>
```

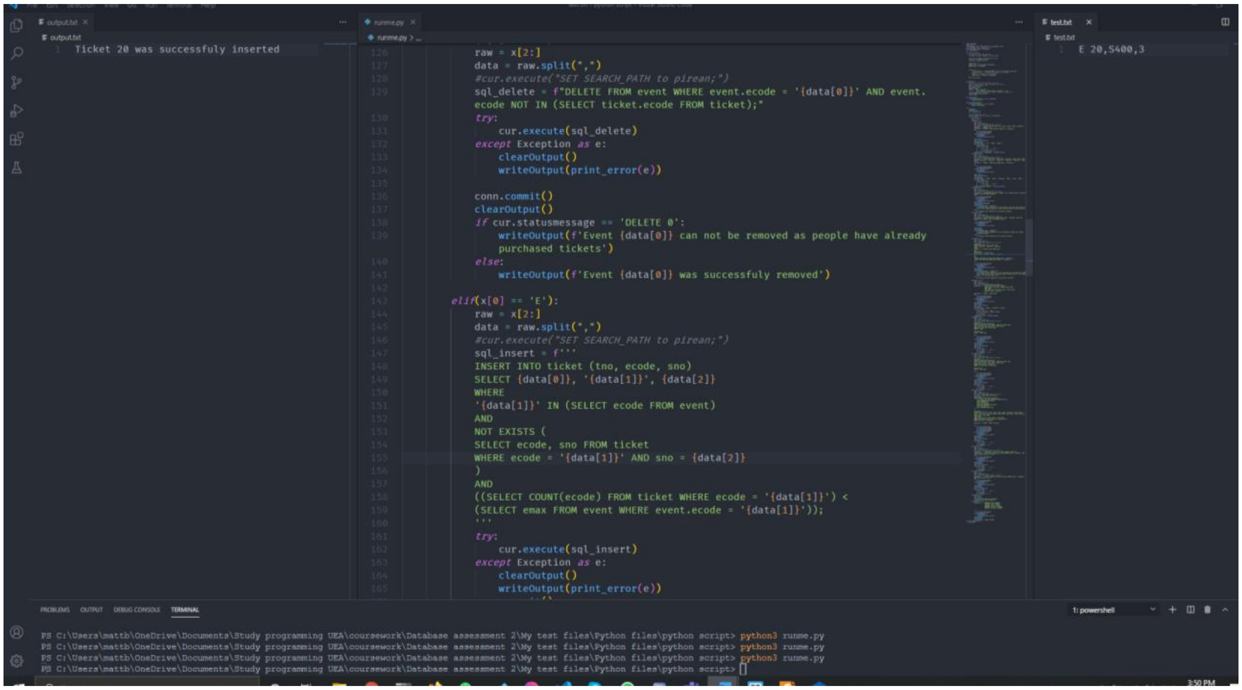
Final tables for comprison:



```
pirean=# select * from event;
 ecode |        edesc        |    elocation      |   edate    |  etime   | emax
-------+---------------------+-------------------+------------+----------+------
 S400  | 400m swimming event | London            | 2019-04-28 | 10:00:00 |  450
 S600  | 400m swim           | Stadium 1         | 2019-04-01 | 09:00:00 |  100
 S900  | 400m swim           | Stadium 1         | 2019-04-01 | 09:00:00 |  100
 S200  | 400m swim           | Stadium 1         | 2019-04-01 | 09:00:00 |  100
 I54D  | lorem id            | Lodan Wetan       | 2019-04-10 | 17:55:00 |   91
 U55A  | imperdiet sapien    | Perehonivka       | 2019-04-12 | 14:26:00 |   66
 P55L  | dolor vel est donec | Trzcinica         | 2019-04-06 | 11:03:00 |   62
 I55D  | consequat metus     | Bantarsari Kulon  | 2019-04-06 | 11:03:00 |   48
 P54T  | nonummy             | Lapa do Lobo      | 2019-04-26 | 13:20:00 |   28
 A100  | 100 metres sprint   | Stadium 1         | 2019-04-01 | 14:00:00 | 1000
 A300  | 300 metres sprint   | Stadium 3         | 2019-04-01 | 14:00:00 |  100
(11 rows)


pirean=#
```

TASK E

TEST 1 PASS E 20,S400,3 (Event exists and customer does not already have a ticket to that event)



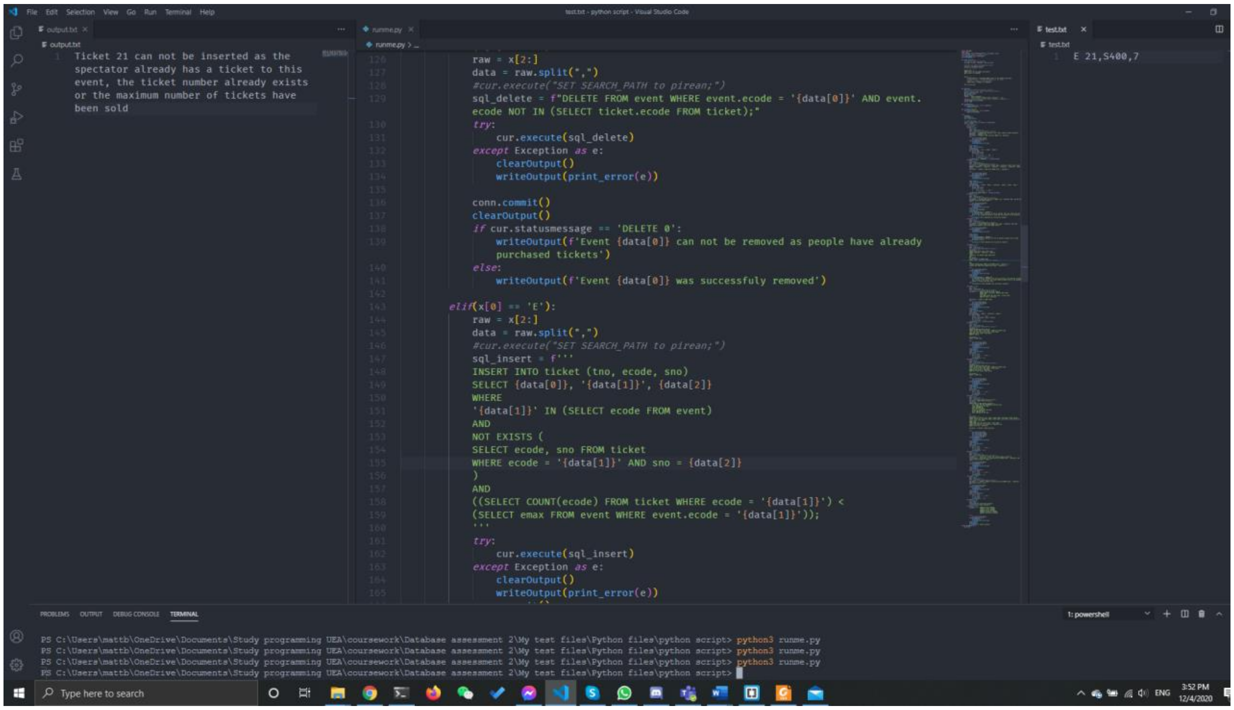
```
Ticket 20 was successfuly inserted
```

```python
        raw = x[2:]
        data = raw.split(",")
        #cur.execute("SET SEARCH_PATH to pirean;")
        sql_delete = f"DELETE FROM event WHERE event.ecode = '{data[0]}' AND event.ecode NOT IN (SELECT ticket.ecode FROM ticket);"
        try:
            cur.execute(sql_delete)
        except Exception as e:
            clearOutput()
            writeOutput(print_error(e))

        conn.commit()
        clearOutput()
        if cur.statusmessage == 'DELETE 0':
            writeOutput(f'Event {data[0]} can not be removed as people have already purchased tickets')
        else:
            writeOutput(f'Event {data[0]} was successfuly removed')

    elif(x[0] == 'E'):
        raw = x[2:]
        data = raw.split(",")
        #cur.execute("SET SEARCH_PATH to pirean;")
        sql_insert = f'''
        INSERT INTO ticket (tno, ecode, sno)
        SELECT {data[0]}, '{data[1]}', {data[2]}
        WHERE
        '{data[1]}' IN (SELECT ecode FROM event)
        AND
        NOT EXISTS (
        SELECT ecode, sno FROM ticket
        WHERE ecode = '{data[1]}' AND sno = {data[2]}
        )
        AND
        ((SELECT COUNT(ecode) FROM ticket WHERE ecode = '{data[1]}') <
        (SELECT emax FROM event WHERE event.ecode = '{data[1]}'));
        '''
        try:
            cur.execute(sql_insert)
        except Exception as e:
            clearOutput()
            writeOutput(print_error(e))
```

```
E 20,S400,3
```

```
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> 
```

TEST 2 FAIL E 21, S400, 7 (Event exists but customer already has a ticket to this event)



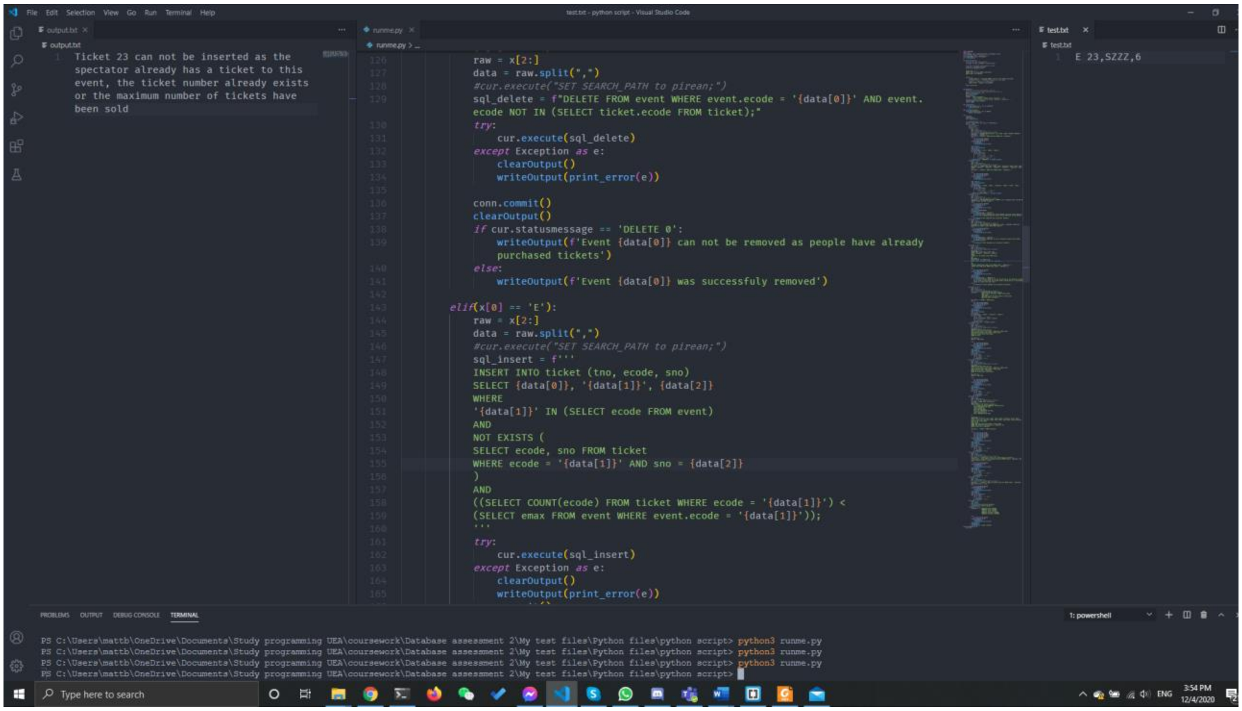
```
Ticket 21 can not be inserted as the
spectator already has a ticket to this
event, the ticket number already exists
or the maximum number of tickets have
been sold
```

```python
        raw = x[2:]
        data = raw.split(",")
        #cur.execute("SET SEARCH_PATH to pirean;")
        sql_delete = f"DELETE FROM event WHERE event.ecode = '{data[0]}' AND event.ecode NOT IN (SELECT ticket.ecode FROM ticket);"
        try:
            cur.execute(sql_delete)
        except Exception as e:
            clearOutput()
            writeOutput(print_error(e))

        conn.commit()
        clearOutput()
        if cur.statusmessage == 'DELETE 0':
            writeOutput(f'Event {data[0]} can not be removed as people have already purchased tickets')
        else:
            writeOutput(f'Event {data[0]} was successfuly removed')

    elif(x[0] == 'E'):
        raw = x[2:]
        data = raw.split(",")
        #cur.execute("SET SEARCH_PATH to pirean;")
        sql_insert = f'''
        INSERT INTO ticket (tno, ecode, sno)
        SELECT {data[0]}, '{data[1]}', {data[2]}
        WHERE
        '{data[1]}' IN (SELECT ecode FROM event)
        AND
        NOT EXISTS (
        SELECT ecode, sno FROM ticket
        WHERE ecode = '{data[1]}' AND sno = {data[2]}
        )
        AND
        ((SELECT COUNT(ecode) FROM ticket WHERE ecode = '{data[1]}') <
        (SELECT emax FROM event WHERE event.ecode = '{data[1]}'));
        '''
        try:
            cur.execute(sql_insert)
        except Exception as e:
            clearOutput()
            writeOutput(print_error(e))
```

```
E 21,S400,7
```

```
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> 
```

TEST 3 FAIL E 23, SZZZ, 6 (event does not exist so a ticket can not be issued)



File Edit Selection View Go Run Terminal Help
test.txt - python script - Visual Studio Code
output.txt
runme.py
test.txt
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
1: powershell
Type here to search

output.txt:

```
Ticket 23 can not be inserted as the spectator already has a ticket to this event, the ticket number already exists or the maximum number of tickets have been sold
```

runme.py:

```python
    raw = x[2:]
    data = raw.split(",")
    #cur.execute("SET SEARCH_PATH to pirean;")
    sql_delete = f"DELETE FROM event WHERE event.ecode = '{data[0]}' AND event.ecode NOT IN (SELECT ticket.ecode FROM ticket);"
    try:
        cur.execute(sql_delete)
    except Exception as e:
        clearOutput()
        writeOutput(print_error(e))

    conn.commit()
    clearOutput()
    if cur.statusmessage == 'DELETE 0':
        writeOutput(f'Event {data[0]} can not be removed as people have already purchased tickets')
    else:
        writeOutput(f'Event {data[0]} was successfuly removed')

elif(x[0] == 'E'):
    raw = x[2:]
    data = raw.split(",")
    #cur.execute("SET SEARCH_PATH to pirean;")
    sql_insert = f'''
    INSERT INTO ticket (tno, ecode, sno)
    SELECT {data[0]}, '{data[1]}', {data[2]}
    WHERE
    '{data[1]}' IN (SELECT ecode FROM event)
    AND
    NOT EXISTS (
    SELECT ecode, sno FROM ticket
    WHERE ecode = '{data[1]}' AND sno = {data[2]}
    )
    AND
    ((SELECT COUNT(ecode) FROM ticket WHERE ecode = '{data[1]}') <
    (SELECT emax FROM event WHERE event.ecode = '{data[1]}'));
    '''
    try:
        cur.execute(sql_insert)
    except Exception as e:
        clearOutput()
        writeOutput(print_error(e))
```

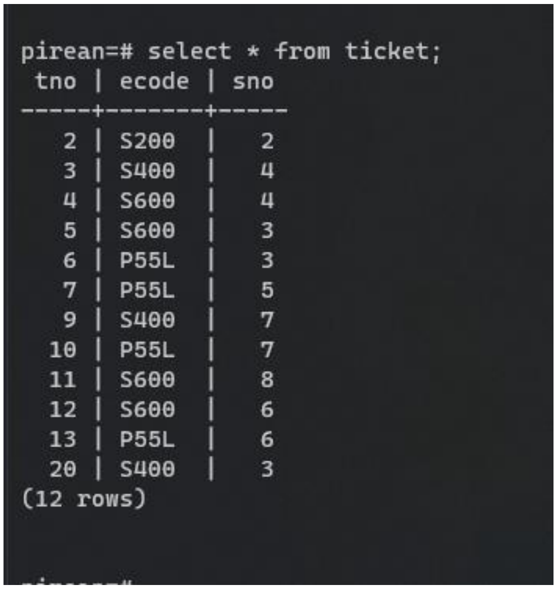
test.txt:

```
E 23,SZZZ,6
```

```
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script>
```

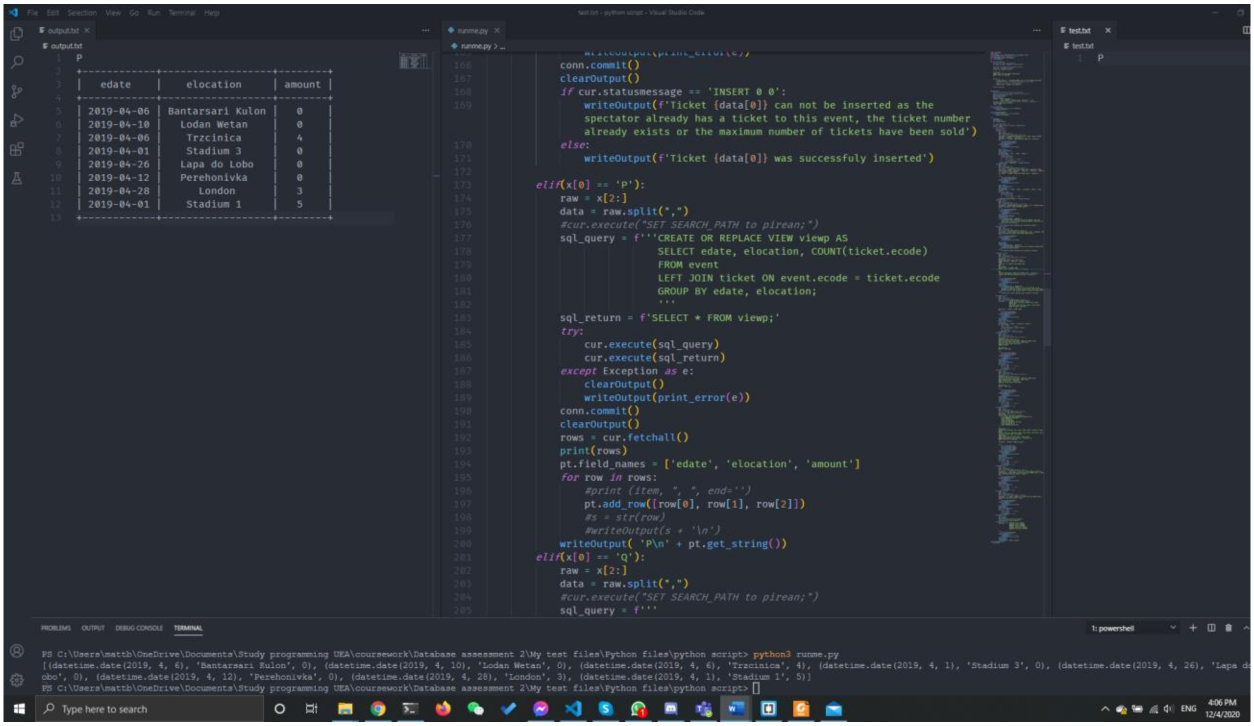
3:54 PM
12/4/2020

Final ticket table



```
pirean=# select * from ticket;
 tno | ecode | sno
-----+-------+-----
   2 | S200  |   2
   3 | S400  |   4
   4 | S600  |   4
   5 | S600  |   3
   6 | P55L  |   3
   7 | P55L  |   5
   9 | S400  |   7
  10 | P55L  |   7
  11 | S600  |   8
  12 | S600  |   6
  13 | P55L  |   6
  20 | S400  |   3
(12 rows)


pirean=#
```

TASK P:


File Edit Selection View Go Run Terminal Help
test.txt - python script - Visual Studio Code
output.txt
runme.py
test.txt
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
1: powershell
Type here to search
ENG
4:06 PM
12/4/2020

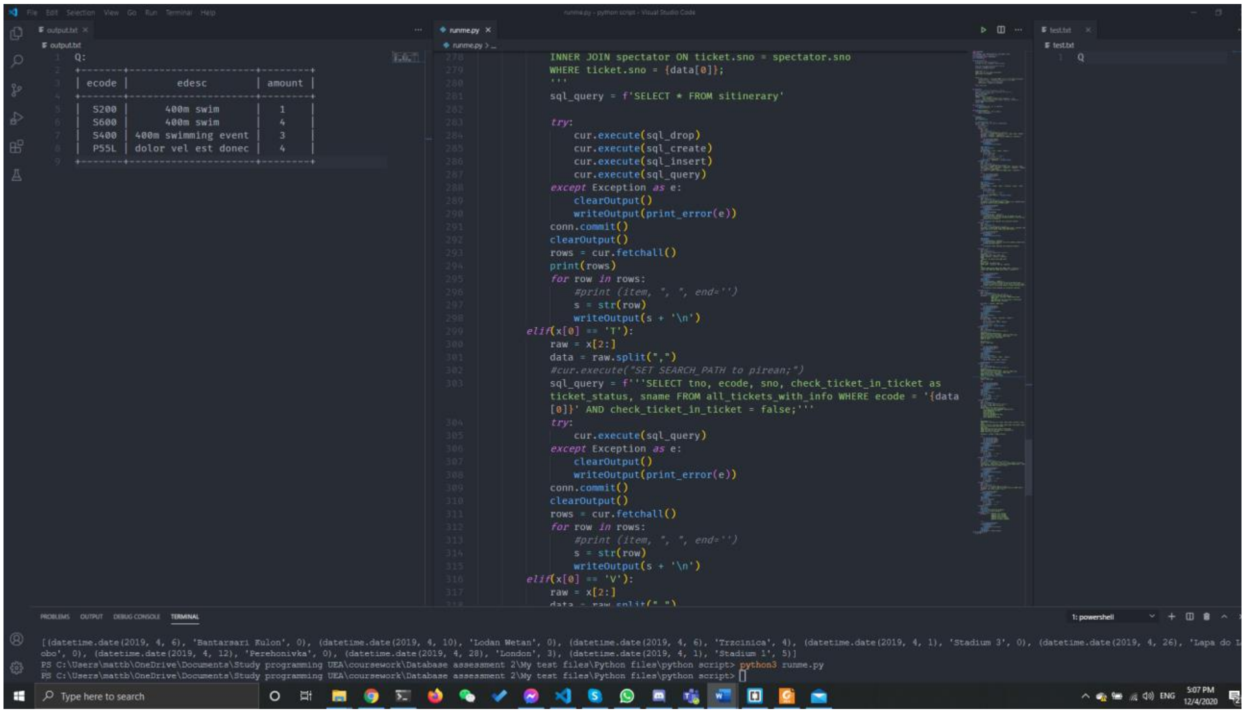
```
P
+------------+-------------------+--------+
|   edate    |     elocation     | amount |
+------------+-------------------+--------+
| 2019-04-06 | Bantarsari Kulon  |   0    |
| 2019-04-10 |    Lodan Wetan    |   0    |
| 2019-04-06 |     Trzcinica     |   4    |
| 2019-04-01 |     Stadium 3     |   0    |
| 2019-04-26 |   Lapa do Lobo    |   0    |
| 2019-04-12 |    Perehonivka    |   0    |
| 2019-04-28 |      London       |   3    |
| 2019-04-01 |     Stadium 1     |   5    |
+------------+-------------------+--------+
```

```python
                writeOutput(print_error(e))
            conn.commit()
            clearOutput()
            if cur.statusmessage == 'INSERT 0 0':
                writeOutput(f'Ticket {data[0]} can not be inserted as the
                spectator already has a ticket to this event, the ticket number
                already exists or the maximum number of tickets have been sold')
            else:
                writeOutput(f'Ticket {data[0]} was successfuly inserted')

        elif(x[0] == 'P'):
            raw = x[2:]
            data = raw.split(",")
            #cur.execute("SET SEARCH_PATH to pirean;")
            sql_query = f'''CREATE OR REPLACE VIEW viewp AS
                            SELECT edate, elocation, COUNT(ticket.ecode)
                            FROM event
                            LEFT JOIN ticket ON event.ecode = ticket.ecode
                            GROUP BY edate, elocation;
                            '''
            sql_return = f'SELECT * FROM viewp;'
            try:
                cur.execute(sql_query)
                cur.execute(sql_return)
            except Exception as e:
                clearOutput()
                writeOutput(print_error(e))
            conn.commit()
            clearOutput()
            rows = cur.fetchall()
            print(rows)
            pt.field_names = ['edate', 'elocation', 'amount']
            for row in rows:
                #print (item, ", ", end='')
                pt.add_row([row[0], row[1], row[2]])
                #s = str(row)
                #writeOutput(s + '\n')
            writeOutput( 'P\n' + pt.get_string())
        elif(x[0] == 'Q'):
            raw = x[2:]
            data = raw.split(",")
            #cur.execute("SET SEARCH_PATH to pirean;")
            sql_query = f'''
```

```
P
```

```
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
[(datetime.date(2019, 4, 6), 'Bantarsari Kulon', 0), (datetime.date(2019, 4, 10), 'Lodan Wetan', 0), (datetime.date(2019, 4, 6), 'Trzcinica', 4), (datetime.date(2019, 4, 1), 'Stadium 3', 0), (datetime.date(2019, 4, 26), 'Lapa d
obo', 0), (datetime.date(2019, 4, 12), 'Perehonivka', 0), (datetime.date(2019, 4, 28), 'London', 3), (datetime.date(2019, 4, 1), 'Stadium 1', 5)]
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> 
```

TASK Q:


File Edit Selection View Go Run Terminal Help
runme.py - python script - Visual Studio Code
output.txt
runme.py
test.txt
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
1: powershell
Type here to search
ENG
5:07 PM
12/4/2020

```
Q:
+-------+----------------------+--------+
| ecode |        edesc         | amount |
+-------+----------------------+--------+
|  S200 |      400m swim       |   1    |
|  S600 |      400m swim       |   4    |
|  S400 | 400m swimming event  |   3    |
|  P55L | dolor vel est donec  |   4    |
+-------+----------------------+--------+
```

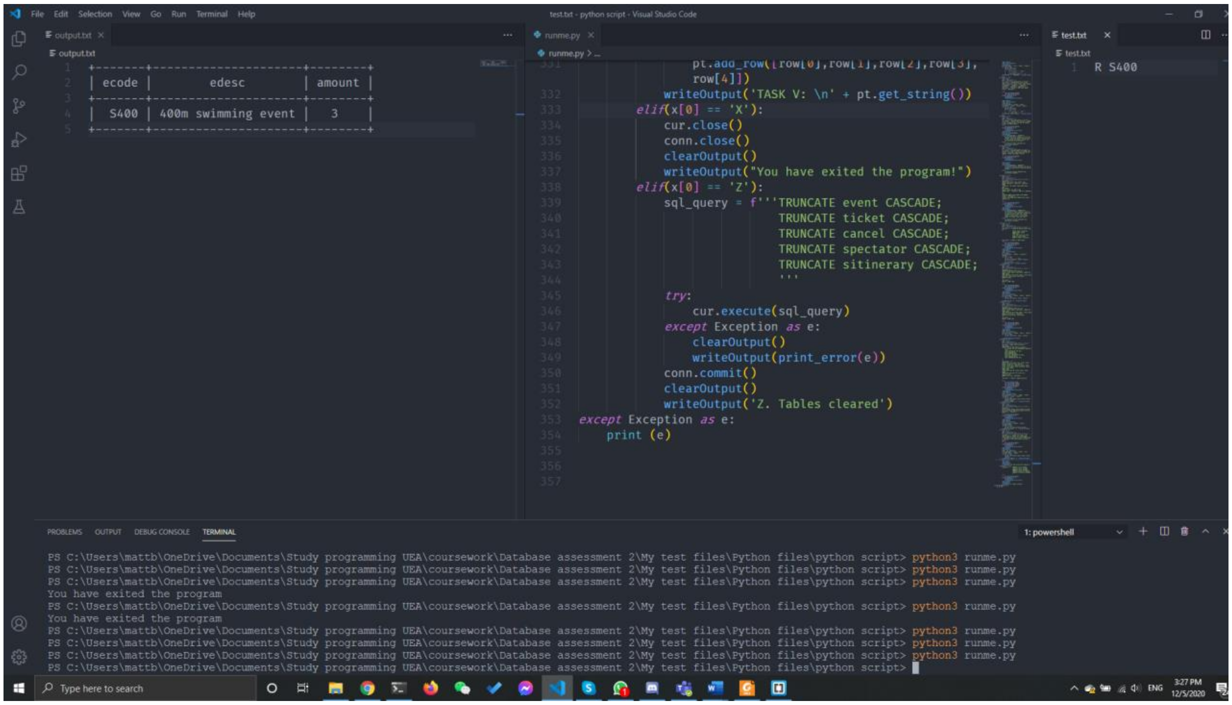
```python
            INNER JOIN spectator ON ticket.sno = spectator.sno
            WHERE ticket.sno = {data[0]};
            '''
            sql_query = f'SELECT * FROM sitinerary'

            try:
                cur.execute(sql_drop)
                cur.execute(sql_create)
                cur.execute(sql_insert)
                cur.execute(sql_query)
            except Exception as e:
                clearOutput()
                writeOutput(print_error(e))
            conn.commit()
            clearOutput()
            rows = cur.fetchall()
            print(rows)
            for row in rows:
                #print (item, ", ", end='')
                s = str(row)
                writeOutput(s + '\n')
        elif(x[0] == 'T'):
            raw = x[2:]
            data = raw.split(",")
            #cur.execute("SET SEARCH_PATH to pirean;")
            sql_query = f'''SELECT tno, ecode, sno, check_ticket_in_ticket as
            ticket_status, sname FROM all_tickets_with_info WHERE ecode = '{data
            [0]}' AND check_ticket_in_ticket = false;'''
            try:
                cur.execute(sql_query)
            except Exception as e:
                clearOutput()
                writeOutput(print_error(e))
            conn.commit()
            clearOutput()
            rows = cur.fetchall()
            for row in rows:
                #print (item, ", ", end='')
                s = str(row)
                writeOutput(s + '\n')
        elif(x[0] == 'V'):
            raw = x[2:]
            data = raw.split(",")
```

```
Q
```

```
[(datetime.date(2019, 4, 6), 'Bantarsari Kulon', 0), (datetime.date(2019, 4, 10), 'Lodan Wetan', 0), (datetime.date(2019, 4, 6), 'Trzcinica', 4), (datetime.date(2019, 4, 1), 'Stadium 3', 0), (datetime.date(2019, 4, 26), 'Lapa do L
obo', 0), (datetime.date(2019, 4, 12), 'Perehonivka', 0), (datetime.date(2019, 4, 28), 'London', 3), (datetime.date(2019, 4, 1), 'Stadium 1', 5)]
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> 
```

TASK R:

TEST 1 PASS R S400



```
+-------+-------------------+--------+
| ecode |       edesc       | amount |
+-------+-------------------+--------+
|  S400 | 400m swimming event |   3    |
+-------+-------------------+--------+
```

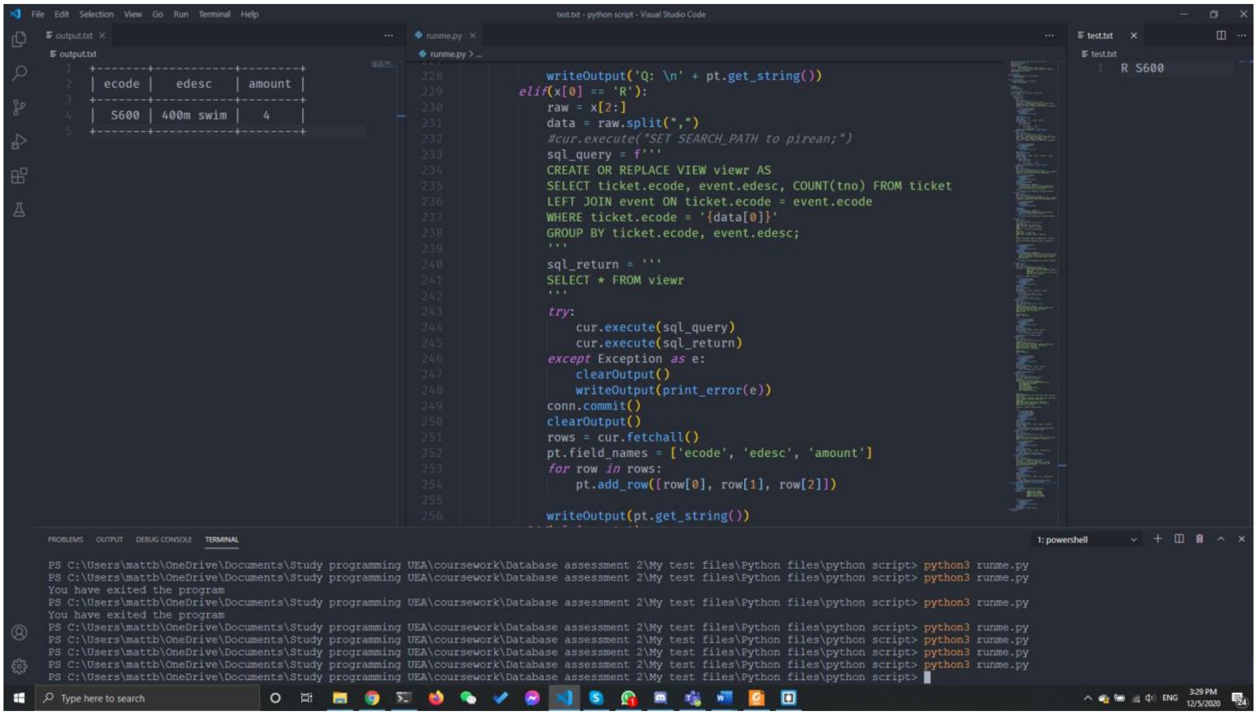
```
R S400
```

```python
                pt.add_row([row[0],row[1],row[2],row[3],
                row[4]])
            writeOutput('TASK V: \n' + pt.get_string())
        elif(x[0] == 'X'):
            cur.close()
            conn.close()
            clearOutput()
            writeOutput("You have exited the program!")
        elif(x[0] == 'Z'):
            sql_query = f'''TRUNCATE event CASCADE;
                            TRUNCATE ticket CASCADE;
                            TRUNCATE cancel CASCADE;
                            TRUNCATE spectator CASCADE;
                            TRUNCATE sitinerary CASCADE;
                            '''
            try:
                cur.execute(sql_query)
            except Exception as e:
                clearOutput()
                writeOutput(print_error(e))
            conn.commit()
            clearOutput()
            writeOutput('Z. Tables cleared')
except Exception as e:
    print (e)
```

```
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
You have exited the program
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
You have exited the program
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script>
```

test.txt - python script - Visual Studio Code
File Edit Selection View Go Run Terminal Help
output.txt
runme.py
test.txt
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
1: powershell
Type here to search
ENG
3:27 PM
12/5/2020

TEST 2 PASS R S600



```
+-------+-----------+--------+
| ecode |   edesc   | amount |
+-------+-----------+--------+
|  S600 | 400m swim |   4    |
+-------+-----------+--------+
```

```
R S600
```

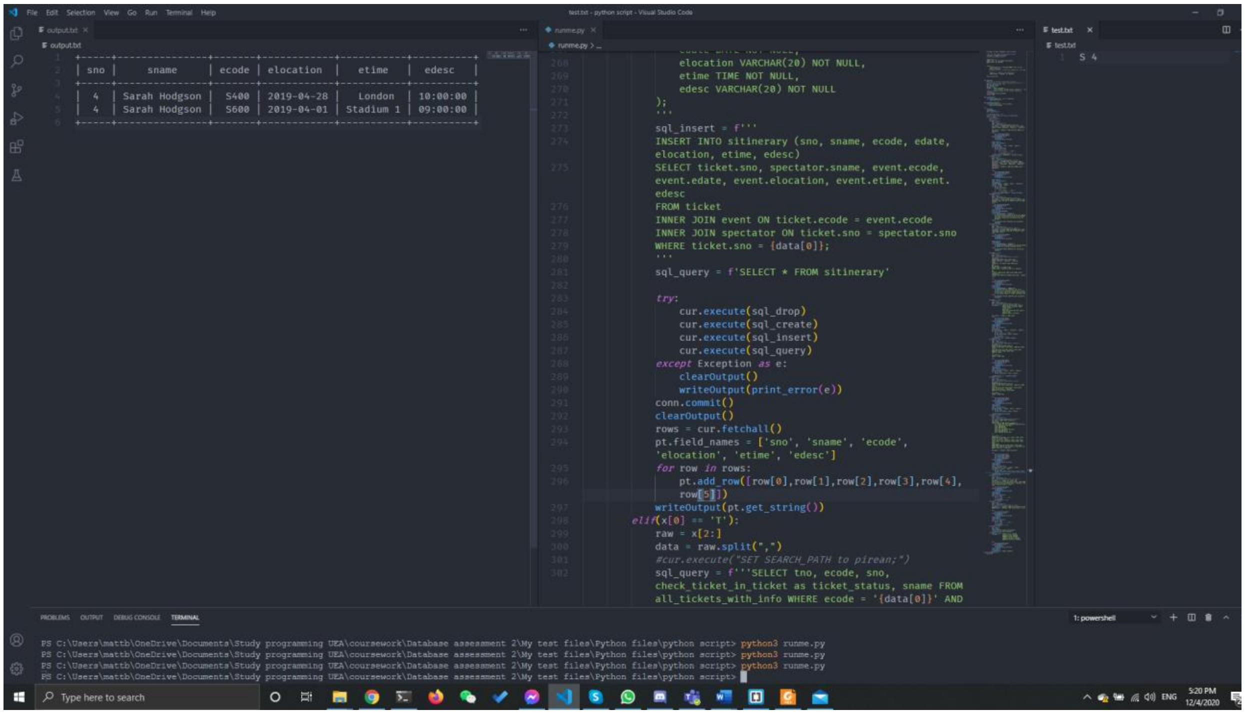
```python
        writeOutput('Q: \n' + pt.get_string())
    elif(x[0] == 'R'):
        raw = x[2:]
        data = raw.split(",")
        #cur.execute("SET SEARCH_PATH to pirean;")
        sql_query = f'''
        CREATE OR REPLACE VIEW viewr AS
        SELECT ticket.ecode, event.edesc, COUNT(tno) FROM ticket
        LEFT JOIN event ON ticket.ecode = event.ecode
        WHERE ticket.ecode = '{data[0]}'
        GROUP BY ticket.ecode, event.edesc;
        '''
        sql_return = '''
        SELECT * FROM viewr
        '''
        try:
            cur.execute(sql_query)
            cur.execute(sql_return)
        except Exception as e:
            clearOutput()
            writeOutput(print_error(e))
        conn.commit()
        clearOutput()
        rows = cur.fetchall()
        pt.field_names = ['ecode', 'edesc', 'amount']
        for row in rows:
            pt.add_row([row[0], row[1], row[2]])

        writeOutput(pt.get_string())
```

```
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
You have exited the program
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
You have exited the program
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script>
```

test.txt - python script - Visual Studio Code
File Edit Selection View Go Run Terminal Help
output.txt
runme.py
test.txt
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
1: powershell
Type here to search
ENG
3:29 PM
12/5/2020

TASK S:

TEST S 4


File Edit Selection View Go Run Terminal Help
test.txt - python script - Visual Studio Code
output.txt
runme.py
test.txt
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
1: powershell
Type here to search
ENG
5:20 PM
12/4/2020

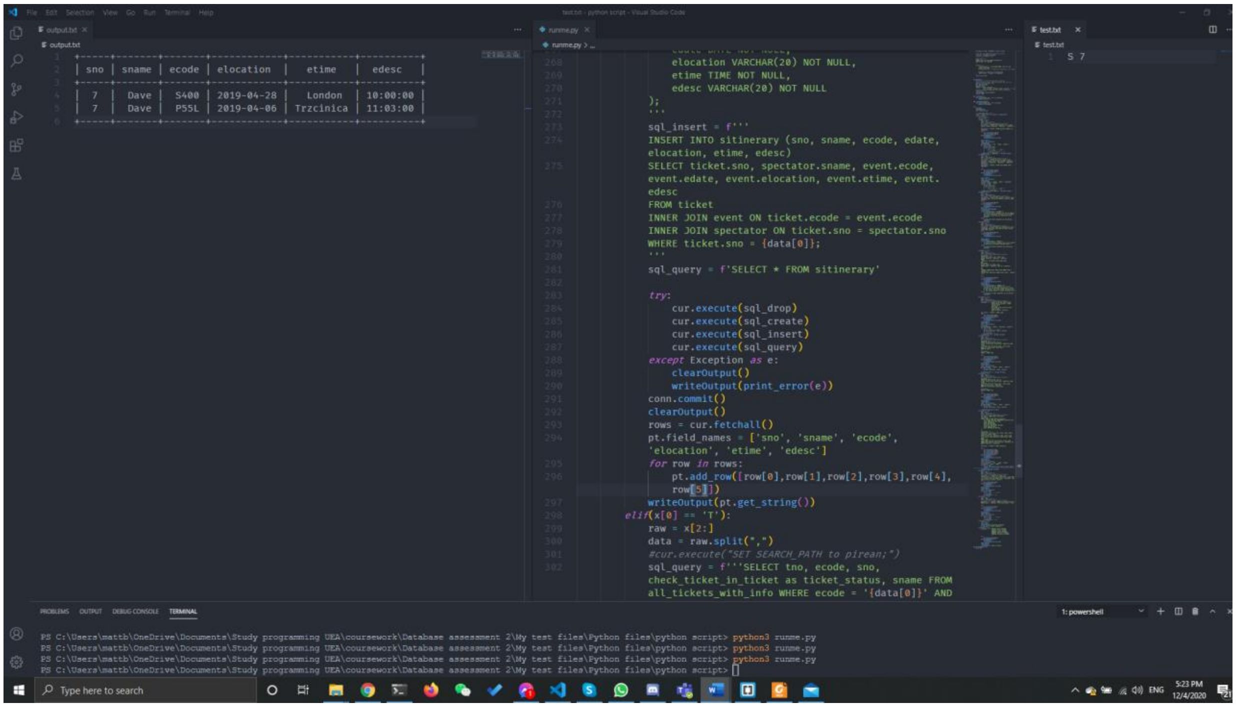
```
+-----+---------------+-------+------------+-----------+----------+
| sno |     sname     | ecode | elocation  |   etime   |  edesc   |
+-----+---------------+-------+------------+-----------+----------+
|  4  | Sarah Hodgson |  S400 | 2019-04-28 |   London  | 10:00:00 |
|  4  | Sarah Hodgson |  S600 | 2019-04-01 | Stadium 1 | 09:00:00 |
+-----+---------------+-------+------------+-----------+----------+
```

```
            elocation VARCHAR(20) NOT NULL,
            etime TIME NOT NULL,
            edesc VARCHAR(20) NOT NULL
        );
        '''
        sql_insert = f'''
        INSERT INTO sitinerary (sno, sname, ecode, edate, elocation, etime, edesc)
        SELECT ticket.sno, spectator.sname, event.ecode, event.edate, event.elocation, event.etime, event.edesc
        FROM ticket
        INNER JOIN event ON ticket.ecode = event.ecode
        INNER JOIN spectator ON ticket.sno = spectator.sno
        WHERE ticket.sno = {data[0]};
        '''
        sql_query = f'SELECT * FROM sitinerary'

        try:
            cur.execute(sql_drop)
            cur.execute(sql_create)
            cur.execute(sql_insert)
            cur.execute(sql_query)
        except Exception as e:
            clearOutput()
            writeOutput(print_error(e))
        conn.commit()
        clearOutput()
        rows = cur.fetchall()
        pt.field_names = ['sno', 'sname', 'ecode', 'elocation', 'etime', 'edesc']
        for row in rows:
            pt.add_row([row[0],row[1],row[2],row[3],row[4],row[5]])
        writeOutput(pt.get_string())
    elif(x[0] == 'T'):
        raw = x[2:]
        data = raw.split(",")
        #cur.execute("SET SEARCH_PATH to pirean;")
        sql_query = f'''SELECT tno, ecode, sno, check_ticket_in_ticket as ticket_status, sname FROM all_tickets_with_info WHERE ecode = '{data[0]}' AND
```

```
S 4
```

```
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script>
```

TEST S 7


File Edit Selection View Go Run Terminal Help
test.txt - python script - Visual Studio Code
output.txt
runme.py
test.txt
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
1: powershell
Type here to search
ENG
5:23 PM
12/4/2020

```
+-----+-------+-------+------------+-----------+----------+
| sno | sname | ecode | elocation  |   etime   |  edesc   |
+-----+-------+-------+------------+-----------+----------+
|  7  |  Dave |  S400 | 2019-04-28 |   London  | 10:00:00 |
|  7  |  Dave |  P55L | 2019-04-06 | Trzcinica | 11:03:00 |
+-----+-------+-------+------------+-----------+----------+
```

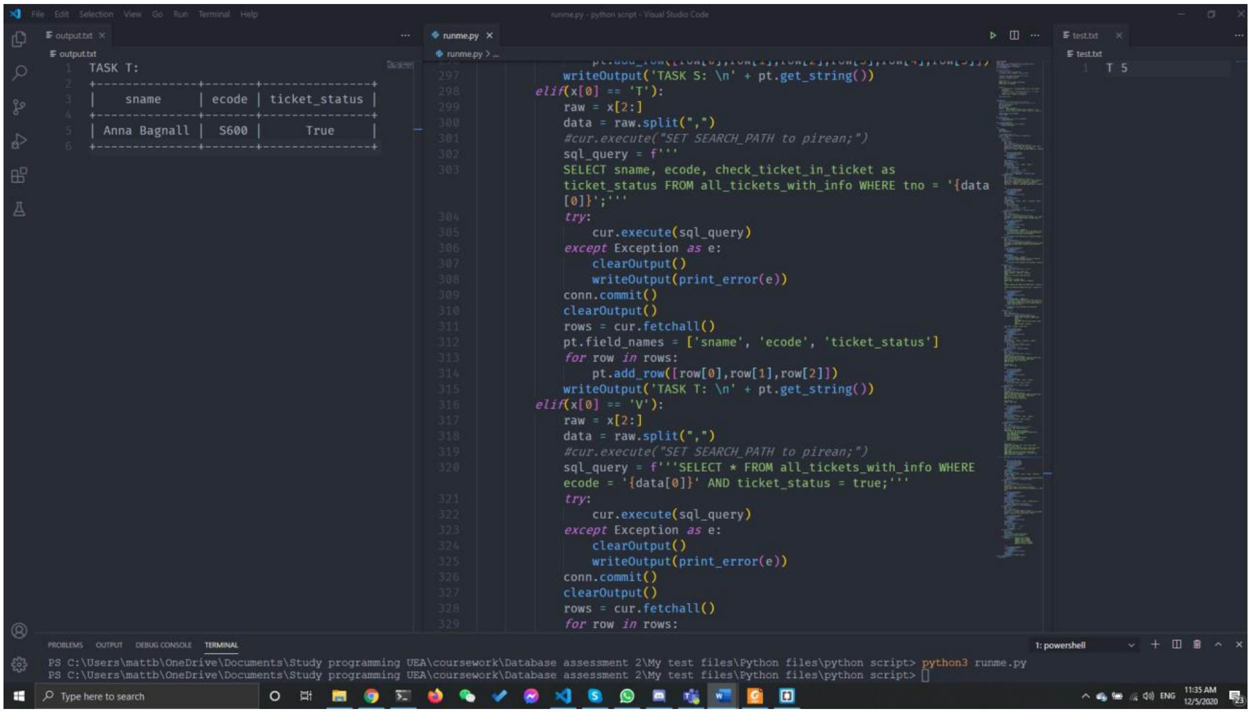
```
            elocation VARCHAR(20) NOT NULL,
            etime TIME NOT NULL,
            edesc VARCHAR(20) NOT NULL
        );
        '''
        sql_insert = f'''
        INSERT INTO sitinerary (sno, sname, ecode, edate, elocation, etime, edesc)
        SELECT ticket.sno, spectator.sname, event.ecode, event.edate, event.elocation, event.etime, event.edesc
        FROM ticket
        INNER JOIN event ON ticket.ecode = event.ecode
        INNER JOIN spectator ON ticket.sno = spectator.sno
        WHERE ticket.sno = {data[0]};
        '''
        sql_query = f'SELECT * FROM sitinerary'

        try:
            cur.execute(sql_drop)
            cur.execute(sql_create)
            cur.execute(sql_insert)
            cur.execute(sql_query)
        except Exception as e:
            clearOutput()
            writeOutput(print_error(e))
        conn.commit()
        clearOutput()
        rows = cur.fetchall()
        pt.field_names = ['sno', 'sname', 'ecode', 'elocation', 'etime', 'edesc']
        for row in rows:
            pt.add_row([row[0],row[1],row[2],row[3],row[4],row[5]])
        writeOutput(pt.get_string())
    elif(x[0] == 'T'):
        raw = x[2:]
        data = raw.split(",")
        #cur.execute("SET SEARCH_PATH to pirean;")
        sql_query = f'''SELECT tno, ecode, sno, check_ticket_in_ticket as ticket_status, sname FROM all_tickets_with_info WHERE ecode = '{data[0]}' AND
```

```
S 7
```

```
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script>
```

TASK T

TEST 1 : T 5



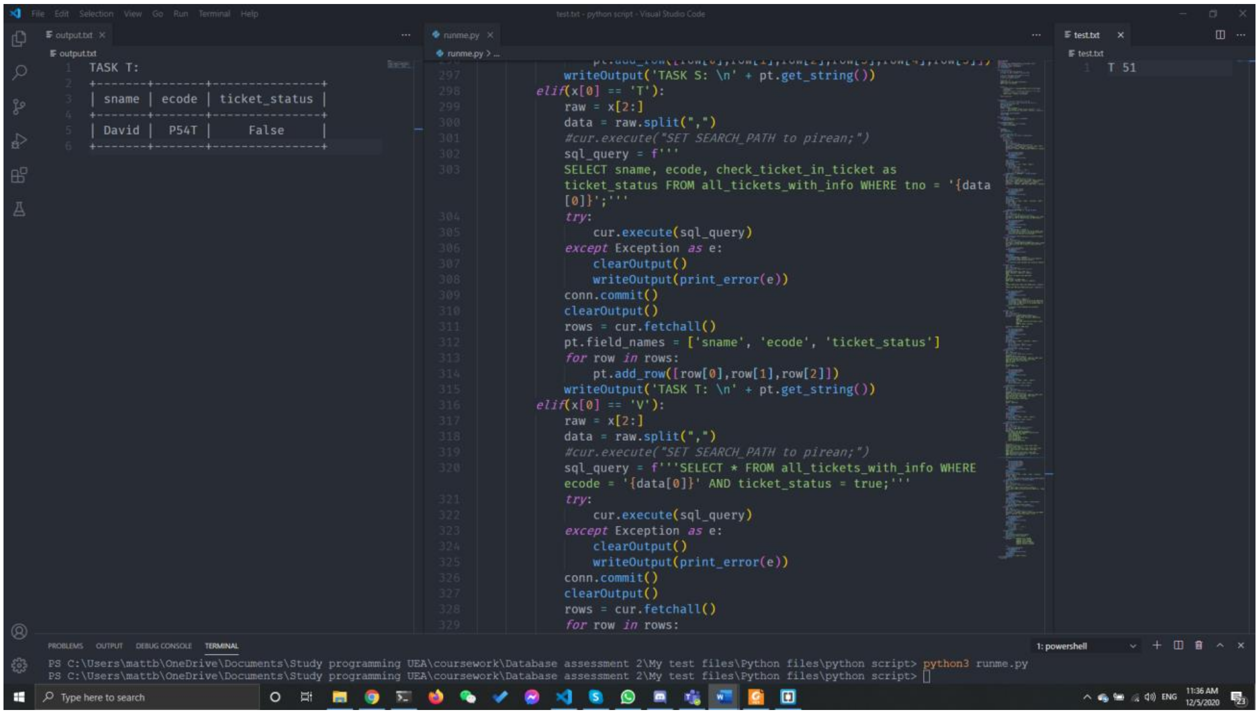
```
TASK T:
+-------------+-------+---------------+
|    sname    | ecode | ticket_status |
+-------------+-------+---------------+
| Anna Bagnall |  S600 |      True     |
+-------------+-------+---------------+
```

```
T 5
```

```python
            writeOutput('TASK S: \n' + pt.get_string())
        elif(x[0] == 'T'):
            raw = x[2:]
            data = raw.split(",")
            #cur.execute("SET SEARCH_PATH to pirean;")
            sql_query = f'''
            SELECT sname, ecode, check_ticket_in_ticket as
            ticket_status FROM all_tickets_with_info WHERE tno = '{data
            [0]}';'''
            try:
                cur.execute(sql_query)
            except Exception as e:
                clearOutput()
                writeOutput(print_error(e))
            conn.commit()
            clearOutput()
            rows = cur.fetchall()
            pt.field_names = ['sname', 'ecode', 'ticket_status']
            for row in rows:
                pt.add_row([row[0],row[1],row[2]])
            writeOutput('TASK T: \n' + pt.get_string())
        elif(x[0] == 'V'):
            raw = x[2:]
            data = raw.split(",")
            #cur.execute("SET SEARCH_PATH to pirean;")
            sql_query = f'''SELECT * FROM all_tickets_with_info WHERE
            ecode = '{data[0]}' AND ticket_status = true;'''
            try:
                cur.execute(sql_query)
            except Exception as e:
                clearOutput()
                writeOutput(print_error(e))
            conn.commit()
            clearOutput()
            rows = cur.fetchall()
            for row in rows:
```

```
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> 
```

TEST 2: T 51



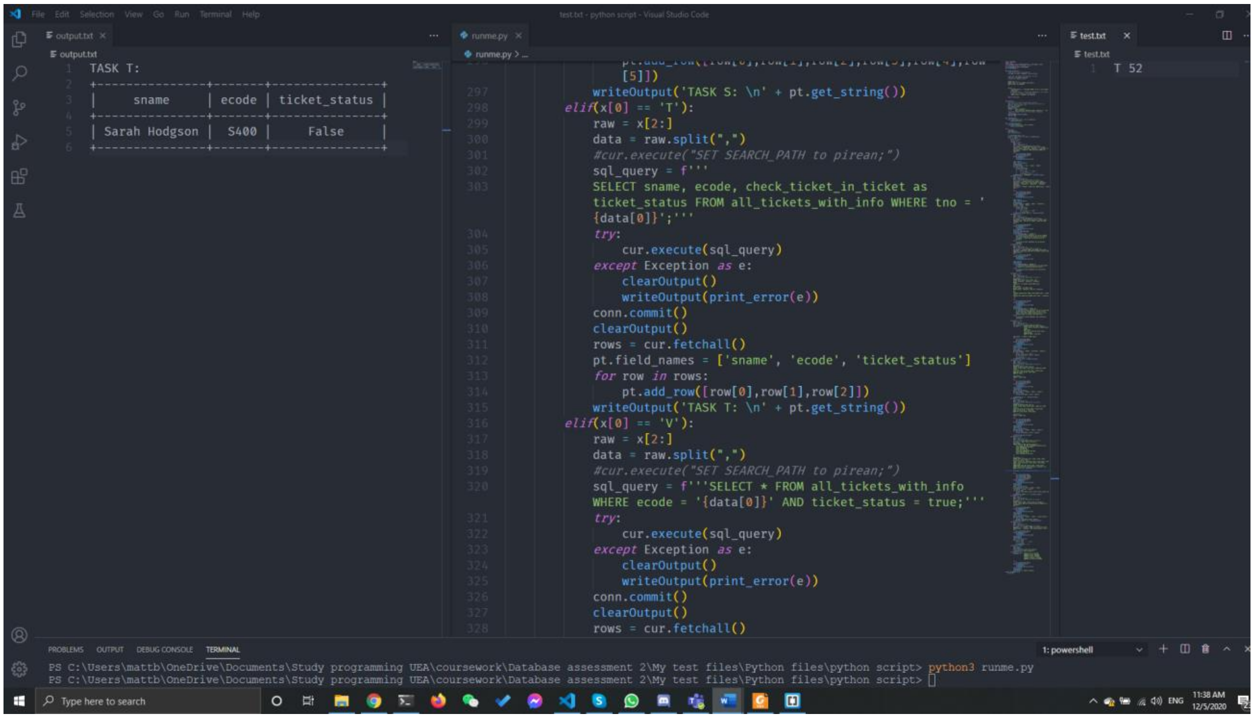
```
TASK T:
+-------+-------+---------------+
| sname | ecode | ticket_status |
+-------+-------+---------------+
| David |  P54T |     False     |
+-------+-------+---------------+
```

```
T 51
```

```python
            writeOutput('TASK S: \n' + pt.get_string())
        elif(x[0] == 'T'):
            raw = x[2:]
            data = raw.split(",")
            #cur.execute("SET SEARCH_PATH to pirean;")
            sql_query = f'''
            SELECT sname, ecode, check_ticket_in_ticket as
            ticket_status FROM all_tickets_with_info WHERE tno = '{data
            [0]}';'''
            try:
                cur.execute(sql_query)
            except Exception as e:
                clearOutput()
                writeOutput(print_error(e))
            conn.commit()
            clearOutput()
            rows = cur.fetchall()
            pt.field_names = ['sname', 'ecode', 'ticket_status']
            for row in rows:
                pt.add_row([row[0],row[1],row[2]])
            writeOutput('TASK T: \n' + pt.get_string())
        elif(x[0] == 'V'):
            raw = x[2:]
            data = raw.split(",")
            #cur.execute("SET SEARCH_PATH to pirean;")
            sql_query = f'''SELECT * FROM all_tickets_with_info WHERE
            ecode = '{data[0]}' AND ticket_status = true;'''
            try:
                cur.execute(sql_query)
            except Exception as e:
                clearOutput()
                writeOutput(print_error(e))
            conn.commit()
            clearOutput()
            rows = cur.fetchall()
            for row in rows:
```

```
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> 
```

TEST 3: T 52



output.txt

```
TASK T:
+---------------+-------+---------------+
|     sname     | ecode | ticket_status |
+---------------+-------+---------------+
| Sarah Hodgson |  S400 |     False     |
+---------------+-------+---------------+
```

runme.py

```
                pt.add_row([row[0],row[1],row[2],row[3],row[4],row
                [5]])
            writeOutput('TASK S: \n' + pt.get_string())
        elif(x[0] == 'T'):
            raw = x[2:]
            data = raw.split(",")
            #cur.execute("SET SEARCH_PATH to pirean;")
            sql_query = f'''
            SELECT sname, ecode, check_ticket_in_ticket as
            ticket_status FROM all_tickets_with_info WHERE tno = '
            {data[0]}';'''
            try:
                cur.execute(sql_query)
            except Exception as e:
                clearOutput()
                writeOutput(print_error(e))
            conn.commit()
            clearOutput()
            rows = cur.fetchall()
            pt.field_names = ['sname', 'ecode', 'ticket_status']
            for row in rows:
                pt.add_row([row[0],row[1],row[2]])
            writeOutput('TASK T: \n' + pt.get_string())
        elif(x[0] == 'V'):
            raw = x[2:]
            data = raw.split(",")
            #cur.execute("SET SEARCH_PATH to pirean;")
            sql_query = f'''SELECT * FROM all_tickets_with_info
            WHERE ecode = '{data[0]}' AND ticket_status = true;'''
            try:
                cur.execute(sql_query)
            except Exception as e:
                clearOutput()
                writeOutput(print_error(e))
            conn.commit()
            clearOutput()
            rows = cur.fetchall()
```

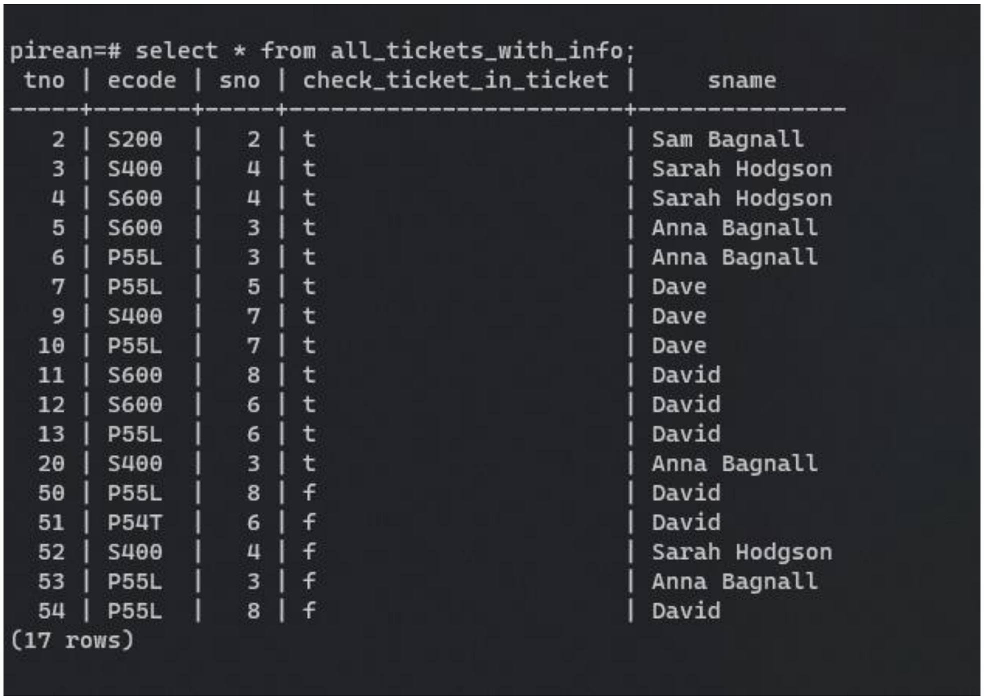
test.txt

```
T 52
```

```
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script>
```

File Edit Selection View Go Run Terminal Help
test.txt - python script - Visual Studio Code
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
1: powershell
Type here to search
11:38 AM
12/5/2020
ENG

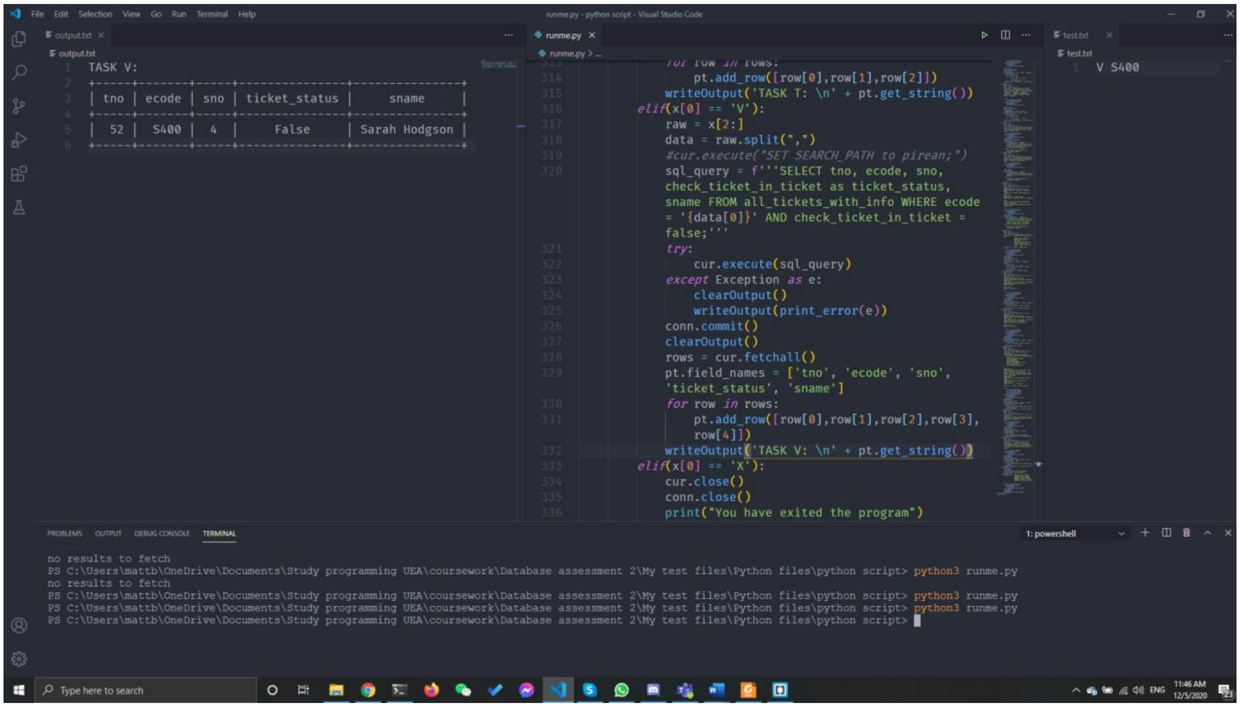
Final ticket status table (multiple customers have multiple tickets so names are similar)



```
pirean=# select * from all_tickets_with_info;
 tno | ecode | sno | check_ticket_in_ticket |     sname
-----+-------+-----+------------------------+---------------
   2 | S200  |   2 | t                      | Sam Bagnall
   3 | S400  |   4 | t                      | Sarah Hodgson
   4 | S600  |   4 | t                      | Sarah Hodgson
   5 | S600  |   3 | t                      | Anna Bagnall
   6 | P55L  |   3 | t                      | Anna Bagnall
   7 | P55L  |   5 | t                      | Dave
   9 | S400  |   7 | t                      | Dave
  10 | P55L  |   7 | t                      | Dave
  11 | S600  |   8 | t                      | David
  12 | S600  |   6 | t                      | David
  13 | P55L  |   6 | t                      | David
  20 | S400  |   3 | t                      | Anna Bagnall
  50 | P55L  |   8 | f                      | David
  51 | P54T  |   6 | f                      | David
  52 | S400  |   4 | f                      | Sarah Hodgson
  53 | P55L  |   3 | f                      | Anna Bagnall
  54 | P55L  |   8 | f                      | David
(17 rows)
```

TASK V

TEST 1: S400



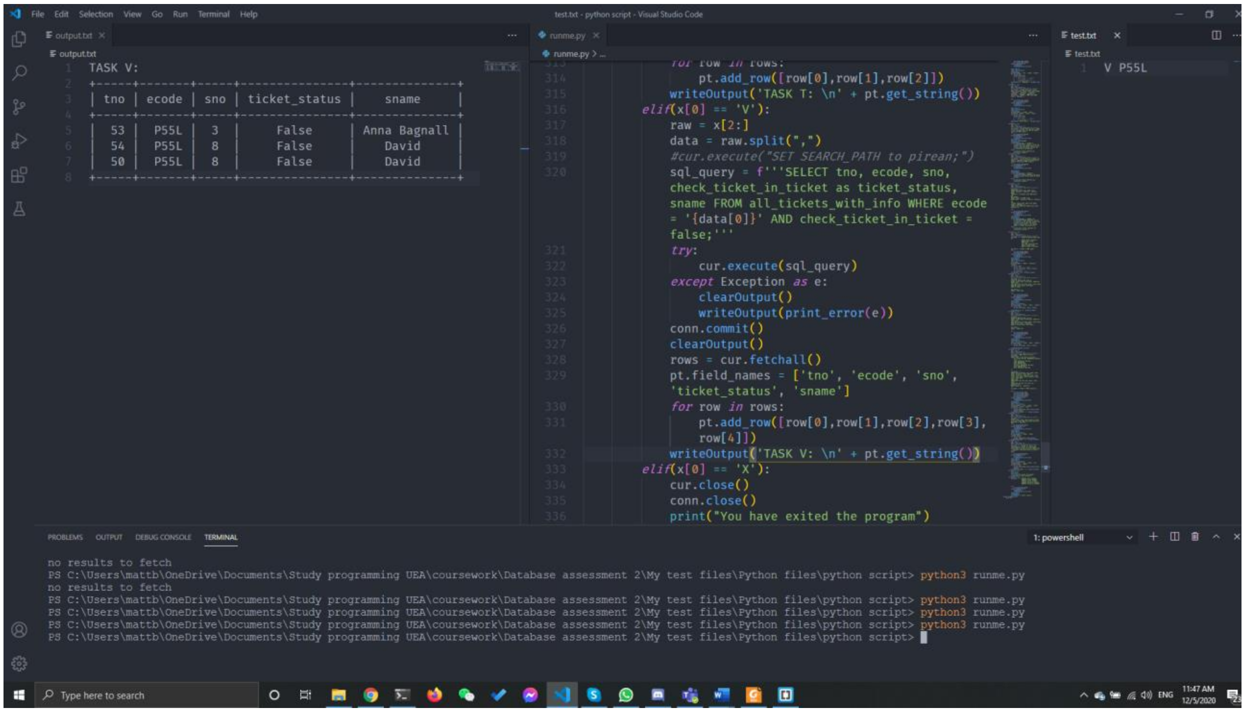
```
TASK V:
+-----+-------+-----+---------------+---------------+
| tno | ecode | sno | ticket_status |     sname     |
+-----+-------+-----+---------------+---------------+
|  52 |  S400 |  4  |     False     | Sarah Hodgson |
+-----+-------+-----+---------------+---------------+
```

```
V S400
```

```python
                for row in rows:
                    pt.add_row([row[0],row[1],row[2]])
                writeOutput('TASK T: \n' + pt.get_string())
            elif(x[0] == 'V'):
                raw = x[2:]
                data = raw.split(",")
                #cur.execute("SET SEARCH_PATH to pirean;")
                sql_query = f'''SELECT tno, ecode, sno, check_ticket_in_ticket as ticket_status, sname FROM all_tickets_with_info WHERE ecode = '{data[0]}' AND check_ticket_in_ticket = false;'''
                try:
                    cur.execute(sql_query)
                except Exception as e:
                    clearOutput()
                    writeOutput(print_error(e))
                conn.commit()
                clearOutput()
                rows = cur.fetchall()
                pt.field_names = ['tno', 'ecode', 'sno', 'ticket_status', 'sname']
                for row in rows:
                    pt.add_row([row[0],row[1],row[2],row[3],row[4]])
                writeOutput('TASK V: \n' + pt.get_string())
            elif(x[0] == 'X'):
                cur.close()
                conn.close()
                print("You have exited the program")
```

```
no results to fetch
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
no results to fetch
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script>
```

TEST 2 P55L



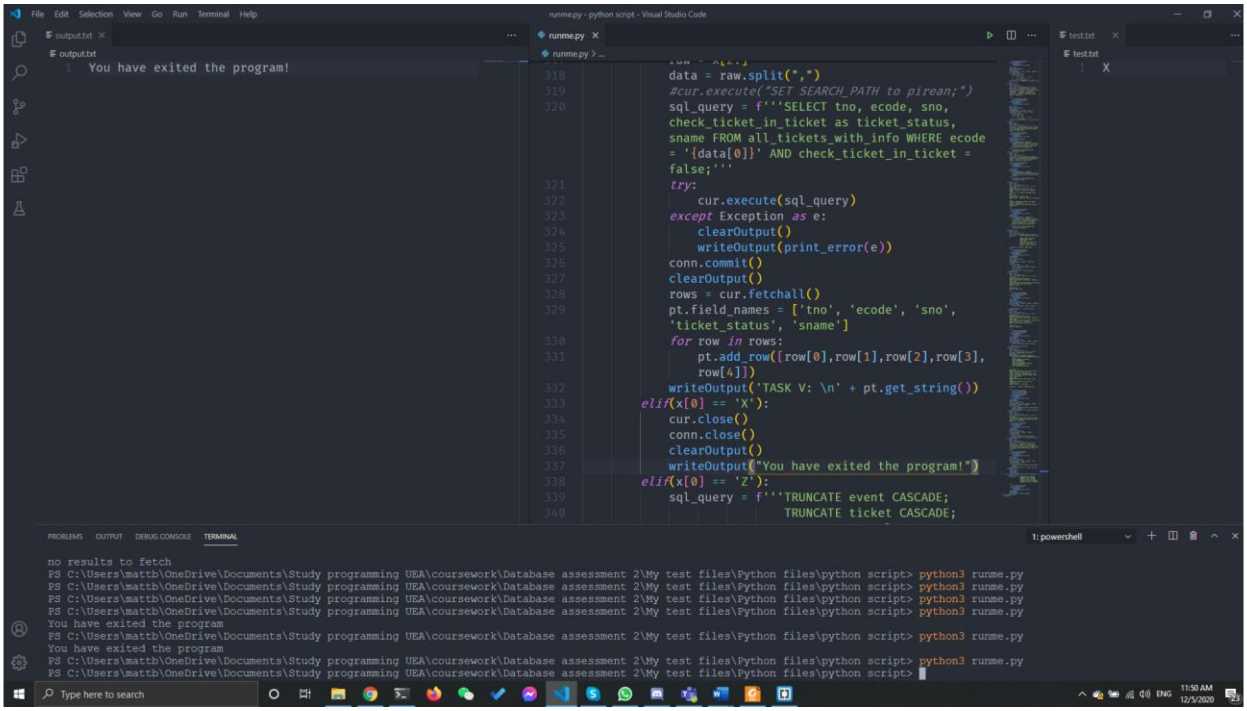
```
TASK V:
+-----+-------+-----+---------------+--------------+
| tno | ecode | sno | ticket_status |    sname     |
+-----+-------+-----+---------------+--------------+
|  53 |  P55L |  3  |     False     | Anna Bagnall |
|  54 |  P55L |  8  |     False     |    David     |
|  50 |  P55L |  8  |     False     |    David     |
+-----+-------+-----+---------------+--------------+
```

```
V P55L
```

```python
                for row in rows:
                    pt.add_row([row[0],row[1],row[2]])
                writeOutput('TASK T: \n' + pt.get_string())
            elif(x[0] == 'V'):
                raw = x[2:]
                data = raw.split(",")
                #cur.execute("SET SEARCH_PATH to pirean;")
                sql_query = f'''SELECT tno, ecode, sno, check_ticket_in_ticket as ticket_status, sname FROM all_tickets_with_info WHERE ecode = '{data[0]}' AND check_ticket_in_ticket = false;'''
                try:
                    cur.execute(sql_query)
                except Exception as e:
                    clearOutput()
                    writeOutput(print_error(e))
                conn.commit()
                clearOutput()
                rows = cur.fetchall()
                pt.field_names = ['tno', 'ecode', 'sno', 'ticket_status', 'sname']
                for row in rows:
                    pt.add_row([row[0],row[1],row[2],row[3],row[4]])
                writeOutput('TASK V: \n' + pt.get_string())
            elif(x[0] == 'X'):
                cur.close()
                conn.close()
                print("You have exited the program")
```

```
no results to fetch
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
no results to fetch
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script>
```

TASK X


runme.py - python script - Visual Studio Code
File Edit Selection View Go Run Terminal Help
output.txt
runme.py
test.txt
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
1: powershell
Type here to search
11:50 AM
12/5/2020

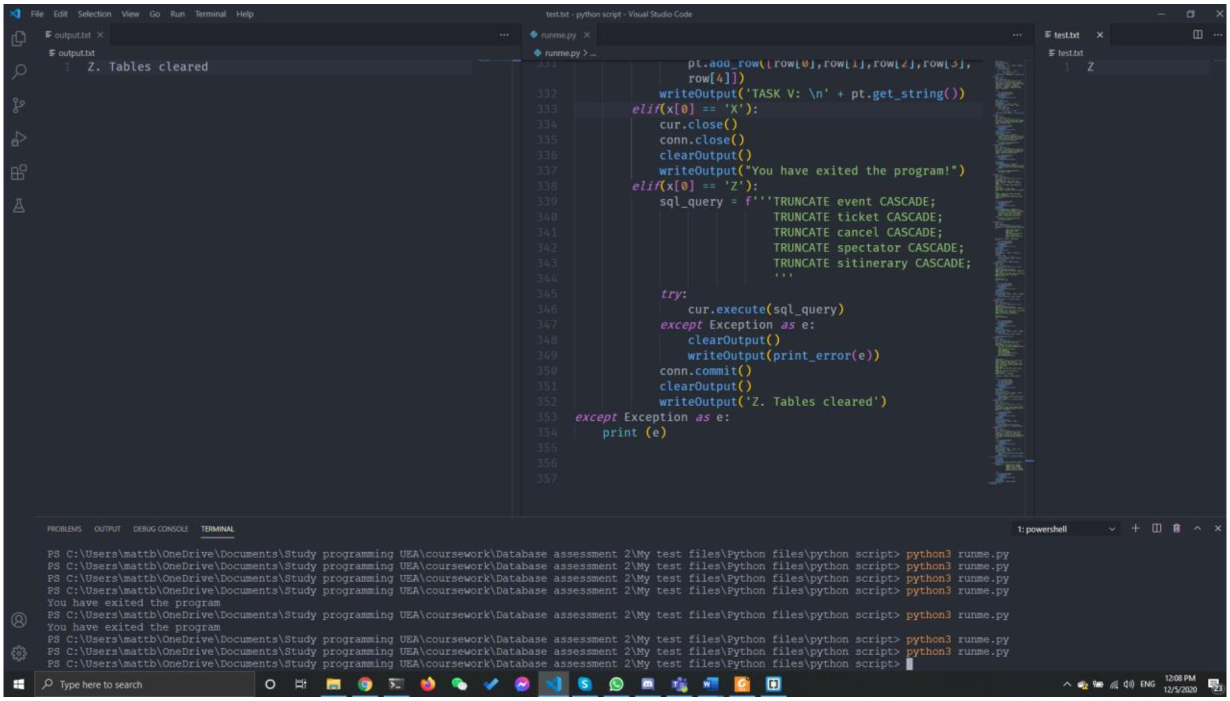
```
You have exited the program!
```

```
                data = raw.split(",")
                #cur.execute("SET SEARCH_PATH to pirean;")
                sql_query = f'''SELECT tno, ecode, sno,
                check_ticket_in_ticket as ticket_status,
                sname FROM all_tickets_with_info WHERE ecode
                = '{data[0]}' AND check_ticket_in_ticket =
                false;'''
                try:
                    cur.execute(sql_query)
                except Exception as e:
                    clearOutput()
                    writeOutput(print_error(e))
                conn.commit()
                clearOutput()
                rows = cur.fetchall()
                pt.field_names = ['tno', 'ecode', 'sno',
                'ticket_status', 'sname']
                for row in rows:
                    pt.add_row([row[0],row[1],row[2],row[3],
                    row[4]])
                writeOutput('TASK V: \n' + pt.get_string())
            elif(x[0] == 'X'):
                cur.close()
                conn.close()
                clearOutput()
                writeOutput("You have exited the program!")
            elif(x[0] == 'Z'):
                sql_query = f'''TRUNCATE event CASCADE;
                                TRUNCATE ticket CASCADE;
```

```
X
```

```
no results to fetch
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
You have exited the program
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
You have exited the program
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script>
```

TASK Z


test.txt - python script - Visual Studio Code
File Edit Selection View Go Run Terminal Help
output.txt
runme.py
test.txt
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
1: powershell
Type here to search
12:08 PM
12/5/2020

```
Z. Tables cleared
```

```
                    pt.add_row([row[0],row[1],row[2],row[3],
                    row[4]])
                writeOutput('TASK V: \n' + pt.get_string())
            elif(x[0] == 'X'):
                cur.close()
                conn.close()
                clearOutput()
                writeOutput("You have exited the program!")
            elif(x[0] == 'Z'):
                sql_query = f'''TRUNCATE event CASCADE;
                                TRUNCATE ticket CASCADE;
                                TRUNCATE cancel CASCADE;
                                TRUNCATE spectator CASCADE;
                                TRUNCATE sitinerary CASCADE;
                                '''
                try:
                    cur.execute(sql_query)
                except Exception as e:
                    clearOutput()
                    writeOutput(print_error(e))
                conn.commit()
                clearOutput()
                writeOutput('Z. Tables cleared')
    except Exception as e:
        print (e)
```

```
Z
```

```
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
You have exited the program
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
You have exited the program
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script> python3 runme.py
PS C:\Users\mattb\OneDrive\Documents\Study programming UEA\coursework\Database assessment 2\My test files\Python files\python script>
```