Stored Procedure Test Case Project

MSSQL - Performance

ASPIRA

2 things

o   SQL Tuning

o   Automated Testing

ASPIRA

SQL Tuning

▲ Single SQL

▲ User-defined function

▲ View

▲ Stored procedure

Automated Testing

- Python
- DOS

▲ Correctness Validation

▲ Performance comparison

Performance comparison

Test Case Output

```
 Stored Procedures Performance Testing                                          —

#----------------------------------------------------------------#
#                 Stored Procedures Performance Testing           #
#----------------------------------------------------------------#
# Description :                                                   #
# You should specify the database info in the following files:    #
# 1. .\TestCases\PDBC\conf\db.json                                #
# 2. .\run.bat                                                    #
#----------------------------------------------------------------#
#----------------------------------------------------------------#
#                 Begin running the Test Cases now!!!             #
#----------------------------------------------------------------#
[INFO]:  Test Case rpt_CurrentInventoryListing is running
[INFO]:  Test Case dbo.rpt_CurrentInventoryListing completed successfully! [6s VS 26s]
[INFO]:  Test Case rpt_EventNoticeForCreditBalance is running
[WARN]:  Test Case rpt_EventNoticeForCreditBalance is timed out and terminated (25 seconds limitation)...
[INFO]:  Test Case rpt_PercentageOfRevenue is running
[INFO]:  Test Case dbo.rpt_PercentageOfRevenue completed successfully! [36s VS 246s]
[INFO]:  Test Case rpt_StatementDetailTotals is running
[INFO]:  Test Case dbo.rpt_StatementDetailTotals completed successfully! [6s VS 41s]
[INFO]:  Test Case rpt_TransactionDetailByAgent is running
[INFO]:  Test Case dbo.rpt_TransactionDetailByAgent completed successfully! [56s VS 27s]
[INFO]:  Test Case rpt_internetsales is running
[WARN]:  Test Case rpt_internetsales is timed out and terminated (100 seconds limitation)...
Press any key to continue . . .
```
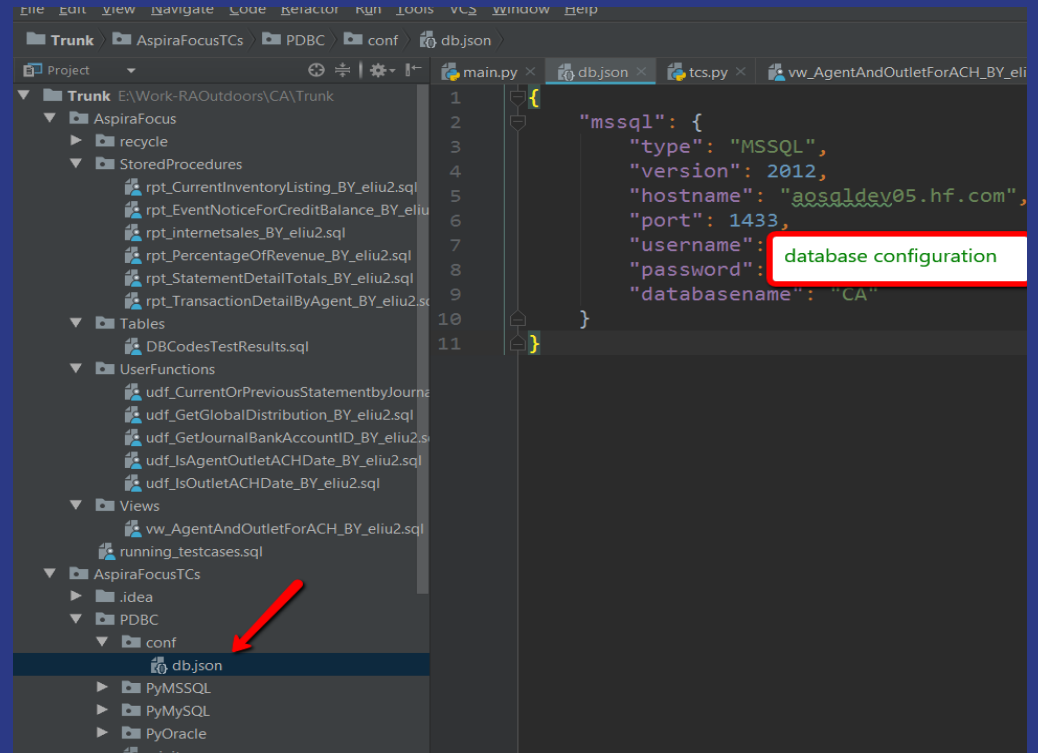
time used (after VS before)

TIME OUT

How to use it?

Database configuration file

run.cmd & db.json

How to add a new Test Case?

Specify the parameter

```
t = [dict(name=assert_sp, timeout=None, args=('dbo.rpt_CurrentInventoryListing_BY_eliu2','dbo.rpt_CurrentInventoryListing', (310001, None,))),
     dict(name=assert_sp, timeout=25, args=('dbo.rpt_EventNoticeForCreditBalance_BY_eliu2','dbo.rpt_EventNoticeForCreditBalance', ())),
     dict(name=assert_sp, timeout=None, args=('dbo.rpt_PercentageOfRevenue_BY_eliu2', 'dbo.rpt_PercentageOfRevenue', ('01/01/2017', '01/31/2017',
     dict(name=assert_sp, timeout=None, args=('dbo.rpt_StatementDetailTotals_BY_eliu2', 'dbo.rpt_StatementDetailTotals', (200003, '200003-089', 
     dict(name=assert_sp, timeout=None, args=('dbo.rpt_TransactionDetailByAgent_BY_eliu2', 'dbo.rpt_TransactionDetailByAgent', ('200003-089', 200
     dict(name=assert_sp, timeout=100, args=('dbo.rpt_internetsales_BY_eliu2', 'dbo.rpt_internetsales', (None, 2017,))),
     ]
```

Demonstration