Food Company

JE Reports for 277 Leases

# Overview:

LC client found Time out issue in production environment to download Journal Entry Report for 277 Leases. Our purpose to study and analyze JE store procedures with client case in our local environment.

# Objectives:

Calculate each SP execution time duration

Find Performance issue

# Requirements/Task(s):

Use specific Client use case of 277 Leases with None Lease Payments

Run SP through T-SQL execute command instead application call against a single batch of 277 leases to execute

Synchronize the Store procedures with Production release.

# Notes:

To execute the reports from database side we need to execute series of Store procedures to calculate the complete execution time for a report and also run all the related store procedures separately to record the execution time of each store procedure.

# Steps/Plan of execution:

1. Imported 277 Leases through Bulk import
2. Added None Lease Payment through script
3. Added 277 Leases Ids in GetLeaseQueue against single batch id to run JE procedure through T-SQL execute command.
4. After Ran JE SP from DB it took 2.58 Minutes
5. Synched SQL Server Profiler with case DB.
6. Ran Profiler Tracer Template.

# Summary:

# We calculated each sproc execution individually on call JE SP and their time duration as in below.

|  |  |  |
| --- | --- | --- |
| **Journal Entry Export Time Duration Case Study with 277 Leases** | | |
| **Sproc/TSQL** | **Time Seconds** | **Micro Seconds** |
| EXECUTE dbo.sp\_lease\_model\_fn | 17.574 | 17574000 |
| Amort While Loop | 14.3253 | 14325311 |
|  |  |  |
| EXECUTE dbo.sp\_jurnal\_ledger\_fn | 160.571 | 160,571,000 |
| JE CURSOR + Insertion | 44.22 | 131,224,999 |
| None Lease Payments CURSOR | 14.7 | 19,346,001 |
|  |  |  |
| exec SP\_ExportJurnalLedger | 183.654 | 183654000 |
| **Total Time in Minutes** | **3.0609** |  |

# Work Around

# As we can see each SProc execution time in Time duration table, if we follow pre-crunch approach just only for Amortization then we will save 90% time as per case study 277 Leases here will save almost 14 seconds.

# If we pre-crunch JE SProc as well then we will save 70% time against JE other 30% will consume to check GL account update and set GL start and end date filter and group.

# In End we will save 134 Seconds as per case study 277 Leases.

# Conclusion

# We did not find any big/massive time execution against any SQL query, if we try to optimize any query then gain could be up to 5% which we think not a big achievement.

# After case study on our local machines, we notice that TIME against 277 lease is little low as compare to production Database server.

# We did not find any difference between Local Machine and Production DB server.

# Link of Profiler Templets Results:

[SP Base time results.xlsx](SP%20Base%20time%20results.xlsx)