OBJECTIVE

Optimization of NGCB Timekeeping

Version of INSYS: Desktop

**Plan**

1. Identify all Tables affected
   1. tEmployeeDailySchedule
   2. tEmployeeAttendanceLog – raw logs
   3. tEmployeeDailySchedule\_Detail
   4. tAttendance – this contains the pairing/sequence
   5. tEDSV – viewing of per cutoff timekeeping processing
2. Get the total rows per table

|  |  |
| --- | --- |
| **Table** | **Row Count/Record Count** |
| * 1. tEmployeeDailySchedule | 811454 |
| * 1. tEmployeeAttendanceLog | 1671996 |
| * 1. tEmployeeDailySchedule\_Detail | 975134 |
| * 1. tAttendance | 689192 |
| * 1. tEDSV | 830 |

1. Create new table where you are going to dump the old records

|  |  |
| --- | --- |
| **Table** | **New Table with the same structure** |
| * 1. tEmployeeDailySchedule | tEmployeeDailySchedule\_history |
| * 1. tEmployeeAttendanceLog | tEmployeeAttendanceLog\_history |
| * 1. tEmployeeDailySchedule\_Detail | tEmployeeDailySchedule\_Detail\_history |
| * 1. tAttendance | tAttendance\_history |
| * 1. tEDSV | tEDSV\_history |

1. Create a script that will dump the old records to history table. Refer to counterpart table.

What is the retention? \_\_\_\_\_90 days\_\_\_\_\_\_\_\_\_

p\_datehistory @date, @getdate

1. Create a script for re-index
2. Apply the re-index
3. If all retention and optimization is working correctly, in the production schedule the re-index to happen 2 days at midnight before the TK processing.
4. Reports

If report is only within the 90 days, no need to JOIN the “history” table

If report is more than 90 days, then JOIN the “history” table

### Pre-requisites

The following are needed to validate if the result of the non-optimized database is the same result as to the optimized database.

|  |  |  |
| --- | --- | --- |
|  | **Previous Cutoff Date for validation** | **Total Number of Record** |
|  |  |  |
|  |  |  |

Test Environment

CPU:

RAM:

### Test Proper

|  |  |  |  |
| --- | --- | --- | --- |
| **Activity** | **Start Time** | **End Time** | **Elapsed Time**  **(mm:ss)** |
| 1. Backup the production database |  |  |  |
| 1. Restore the backup database to the QA server |  |  |  |
| 1. Apply the optimization scripts  * Filename |  |  |  |
| 1. Execute the retention transfer and cleanup of records |  |  |  |
| 1. Perform the computation for cut-off 1 |  |  |  |
| 1. Perform the computation for cut-off 2 |  |  |  |

### Comparison

|  |  |
| --- | --- |
|  | If the result of the cutoff is NOT the same, what makes it differ. |
| Production cutoff 1 is the same result with QA cutoff 1 |  |
| Production cutoff 2 is the same result with QA cutoff 2 |  |

If the results of comparison are not the same, consider the following

Are there manual adjustments made to production prior to processing which was not reflected in the QA server re-processing?