Using Adabas Review in Batch Natural

You can start and review Adabas Review reports in a batch job to obtain statistics on a batch Adabas job as output from the job itself.

To run the batch job in the correct environment, you must specify the:

- Target ID (the database or hub ID with which the subsequent program or programs will communicate). This is referred to as the DBID/Hub or current Adabas Review target in SYSREVDB. This must be specified explicitly when running in hub mode.

- Database ID and file number where the Adabas Review repository file is located. These are referred to as the Repository DBID and Repository File in SYSREVDB. This information is required when accessing history data in the batch job.

This chapter covers the following topics:

- Identifying the Target ID, Database ID, and File Number

- Example

- Processing History Data in Batch Natural

- Unloading and Restoring Report Definitions

Identifying the Target ID, Database ID, and File Number

The default target ID is the database in which the Natural logical system file is located. If the LFILE parameter for logical file number 241 is specified, the DBID value from this parameter will be taken. The default for the repository database ID and file number are specified using the Natural LFILE parameter for logical file number 241.

A defined SYSREVDB (online Natural) user profile overrides any default settings. However, the target ID setting can be specified in SYSREVDB using the command MENU HUB=*hubid* prior to issuing the START command for a report. If the parameter is set to "AUTO", the first hub found on the SVC will be used.

However, both the Natural default settings and the SYSREVDB user profile settings of the target ID, database ID, and file number can be overridden using the SET statement in any of the existing batch Natural job streams.

The syntax of the SET statement is:

```
SET  TARGET = targetid
     DBID = dbid
     FILE = fn
```

The SET statement overrides the Natural default and SYSREVDB values for the target ID, database ID, and file number. The values specified by SET remain in effect until changed by a new SET statement.

When you specify the SET statement in a batch Natural job stream, you must also specify one or more of the following: a TARGET parameter and value, a DBID parameter and value, or a FILE parameter and value. Only one of each parameter *type* can be specified in a single SET statement (for example, you cannot specify two DBID parameters in the same SET statement). If you specify more than one of the parameters (for example, a TARGET and a DBID parameter), they can be specified in any order and should be separated with commas.

The following is an example of the SET statement in a batch Natural job stream:

```
//CMSYNIN  DD *
LOGON SYSREVDB
SET TARGET=558,DBID=559,FILE=24
START REVIEW.REPORT.NAME
FIN
//*
```

Example

A batch Natural job (PAYROLL1) is run each night. When the job is completed, Adabas summary statistics are requested to determine the number of Adabas calls issued by the job, the files accessed, the type of Adabas commands issued, and a summary of ASSO, DATA, and WORK IOs for each command type within each file.

▶ **To implement the request for Adabas summary statistics:**

1. Ensure that the Review load library is in the STEPLIB concatenation.

2. Define the following report definition and related processing rules to Adabas Review:

```
20:47:38                 A D A B A S  -  R E V I E W              2009-06-18
                              Edit Report                          HUB=15690
       Detail/Summary: S
       Report Name: TRACE PAYROLL REPORT_____    DBID to Monitor: _____


       +-----------------------------------------------------------------+
       !  Field        Order   Sum   Min   Max   Avg   Pct   Rate  Round !
       !-----------------------------------------------------------------!
       ! FILE____       _10     _     _     _     _     _     _    _____ !
       ! CMD_____       _20     _     _     _     _     _     _    _____ !
       ! COMMANDS       ____    X     _     _     _     _     _    _____ !
       ! ASSOIO__       ____    X     _     _     _     _     _    _____ !
       ! DATAIO__       ____    X     _     _     _     _     _    _____ !
       ! WORKIO__       ____    X     _     _     _     _     _    _____ !
       ! _____       ____    _     _     _     _     _     _    _____ !
       ! _____       ____    _     _     _     _     _     _    _____ !
       ! _____       ____    _     _     _     _     _     _    _____ !
       ! _____       ____    _     _     _     _     _     _    _____ !
       +------------------------- Page 1 ----------------------------+
                  This report contains processing rules


 Command: _____
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
       Help  Optns Exit        Save  Start  -     +         Rules Flds  Menu
```

```
20:47:59                  A D A B A S  -  R E V I E W           2009-06-18
                          Report Processing Rules                 HUB=15690

                            TRACE PAYROLL REPORT
+-----------------------------------------------------------------------------+
! Field      Op      Value                                           And/Or !
!-----------------------------------------------------------------------------!
! JOBNAME_   EQ   PAYROLL1_____   ___  !
! _____   __   _____   ___  !
! _____   __   _____   ___  !
! _____   __   _____   ___  !
! _____   __   _____   ___  !
! _____   __   _____   ___  !
! _____   __   _____   ___  !
! _____   __   _____   ___  !
! _____   __   _____   ___  !
! _____   __   _____   ___  !
! _____   __   _____   ___  !
+------------------------------ Page 1 --------------------------------


Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Optns Exit       Save  Start  -     +               Flds  Menu
```

3. Save the report definition.

4. Change the PAYROLL1 job stream if necessary to produce the required results shown below:

```
LOGON SYSREVDB                          <---logon to
Review Natural library
START TRACE.PAYROLL.REPORT targetid     <---start Review report
LOGON PAYROLL
*
* PAYROLL1 NATURAL STREAM
*
LOGON SYSREVDB                          <---logon to Review Natural
library
VIEW TRACE.PAYROLL.REPORT targetid      <---to display report results
DELREP TRACE.PAYROLL.REPORT targetid    <---to delete report results
FIN
```

Processing History Data in Batch Natural

You may also use batch Natural programs to display, purge, or compress history data from the Adabas Review repository. Adabas Review provides sample jobs to perform these tasks.

▶ **To use these jobs:**

1. Add the report name and date range.

2. Enter any embedded blanks in the report name as periods.

▶ **To display history data:**

1. Use the HISTVIEW job.

   The following Natural statements are contained in the display history data job stream:

   ```
   LOGON SYSREVDB                         <--logon to Review Natural library.
   HISTORY A.HISTORY.REPORT start-date end-date  <--report name and dates.
   FIN
   /*
   ```

▶ **To delete history data:**

1. Use the HISTDEL job.

   The following Natural statements are contained in the delete history data job stream:

   ```
   LOGON SYSREVDB                         <--logon to Review Natural library.
   DELHIST A.HISTORY.REPORT start-date end-date  <--report name and dates.
   FIN
   /*
   ```

▶ **To compress history reports:**

1. Use the HISTCOMP job.

   The following Natural statements are contained in the compress history job stream:

   ```
   LOGON SYSREVDB                         <--logon to Review Natural library.
   COMPRESS A.HISTORY.REPORT start-date end-date et-factor <--report info.
   FIN
   /*
   ```

Unloading and Restoring Report Definitions

Review report definitions can be unloaded to a sequential data set for backup, archive or for the purpose of moving the definition to a different Review system. There are two batch Natural programs to accomplish this, ULDREP and LODREP. ULDREP unloads a single report definition to a sequential data set as defined by the Natural work file CMWKF01. LODREP restores the definition from the same sequential data set.

The syntax for ULDREP is:

```
ULDREP report.name
```

where *report.name* is the report name with periods between each word in the report name.

The syntax for LODREP is:

```
LODREP report.name
```

The job control statements to run ULDREP and LODREP are the same as other Review batch Natural jobs such as START, VIEW and DELHIST.