Prodedures

Define prototype

We have to define procedure, functions, Temporary tables in a package.

The PL/SQL data types PLS\_INTEGER and BINARY\_INTEGER are identical. For simplicity, this document uses PLS\_INTEGER to mean both PLS\_INTEGER and BINARY\_INTEGER.

The PLS\_INTEGER data type stores signed integers in the range -2,147,483,648 through 2,147,483,647, represented in 32 bits.

The PLS\_INTEGER data type has these advantages over the NUMBER data type and NUMBER subtypes:

* PLS\_INTEGER values require less storage.
* PLS\_INTEGER operations use hardware arithmetic, so they are faster than NUMBER operations, which use library arithmetic.

For efficiency, use PLS\_INTEGER values for all calculations in its range.

**create or replace  
PACKAGE** PKG\_HOUSEKEEPING\_INFRA  
**AS**

**TYPE** INDEX\_LIST\_TYPE **IS TABLE OF** ALL\_OBJECTS.OBJECT\_NAME%**TYPE INDEX BY** *PLS\_INTEGER*;  
**TYPE** INDEX\_PARTITION\_TYPE **IS TABLE OF** USER\_TAB\_PARTITIONS.PARTITION\_NAME%**TYPE INDEX BY** *PLS\_INTEGER*;

**FUNCTION** GET\_HIGH\_VALUE\_FOR\_HIST(p\_TableName **IN** *VARCHAR2*)  
**RETURN** INDEX\_LIST\_TYPE;

**FUNCTION** GET\_HIGH\_VALUE\_FOR\_MAIN(p\_TableName **IN** *VARCHAR2*)  
**RETURN** INDEX\_LIST\_TYPE;

**PROCEDURE** INVOKE\_MASTER\_HOUSEKEEPING;  
**PROCEDURE** FILTER\_PURGE\_DATA(ABORT\_FLAG\_START **OUT** *NUMBER*);

**END** PKG\_HOUSEKEEPING\_INFRA;

Independent Transactions

**PROCEDURE** UPDATE\_JOB\_STATUS\_BEGIN (JOBNAME **IN** *VARCHAR2*) **AS  
 PRAGMA AUTONOMOUS\_TRANSACTION**;  
**BEGIN  
 UPDATE** JOB\_STATUS  
 **SET** START\_TIME=CURRENT\_TIMESTAMP,STATUS='RUNNING'  
 **WHERE** JOB\_NAME=JOBNAME;  
 **COMMIT**;  
**END** UPDATE\_JOB\_STATUS\_BEGIN;