

Verify_LH Stored Procedure Subroutine

Description

Tests linear hash tables, and stores statistical information about data distribution and space utilization for a table or tables. Verify_LH also diagnoses group format errors (GFEs).

Note: By default, the index table (the ! file) and the dictionary (DICT.filename) associated with the table are verified, along with the data portion of the file. If you only wish to verify the data portion only, prefix tablelist with DATA., as in DATA.orders.

Syntax

Verify_LH (volumelist, tablelist, ignoreflag, keepflag, detailflag)

Parameters

Verify_LH accepts arguments for the following parameters.

Parameter	Description
volumelist	Contains the operating system path and drive identifier for each volume to test or the key of a volume definition row in the SYSPTRS table. If null, then <i>tablelist</i> is tested. If <i>volumelist</i> and <i>tablelist</i> are null, the default volume, specified using the system stored procedure Set_Env , is used. Note: As of Version 4.1.3, <i>volumelist</i> can reference a UNC style location, such as a location on another computer (for example <code>\\server\share\revdata</code> , referring to folder <code>\\share\revdata</code> on the computer <code>\\server</code>).
Tablelist	A table or list of tables in a specific volume to test. You can test the data, dictionary, and index tables separately by entering the appropriate table name. Multiple tables are delimited by @FM. If <i>volumelist</i> and <i>tablelist</i> are null, the default volume, specified using the stored procedure Set_Env , is used.
ignoreflag	Set ignoreflag to true (1), to continue testing all tables specified, if an error is encountered during testing.
keepflag	If true (1), the data in the output tables SYSLHVERIFY and SYSLHGROUP is not cleared. By default, the tables are cleared if this flag is not set.
detailflag	If true (1), detailed statistical information about each group in the table or tables tested is saved in the SYSLHGROUP table.

Output

For each table tested by Verify_LH, a row is stored in **SYSLHVERIFY**. The fields are as follows:

Field Number	Description
0	Key, in the format DateTimeVerified*Application_Name*TableName
1	Date and Time verified, in internal (ICONV) format
2	Group
3	Frame size, in bytes
4	LK_size, in bytes
5	OV_size, in bytes
6	Modulo
7	Sizelock (0 = off, 1 = on)
8	Frame for free space
9	Unused free space
10	Number of rows
11	Row count
12	Rows per group

13	Average row length
14	Primary frame row factor (percent of primary frames used)
15	Overall load factor (percent of all frames used)
16	Average disk I/O
17	Standard disk I/O
18	Average overflow for group
19	Standard overflow for group
21	Load factor

If detailflag = 1, a row in **SYSLHGROUP** per group per table verified is generated, with the following fields:

Field Number	Description
0*1	Date and Time verified, in internal (ICONV) format
0*2	Application Name
0*3	Table Name
0*4	Group Number
1	Number of Frames
2	Number of Rows
4	Average disk I/Os

See also

[Fix_LH](#)

Example

```

/* Verifies the structure of the ORDERS table (including the bang file and dictionary file)
and the data portion of the INVOICES table, in the volume DATAVOL.
If errors are found in ORDERS, testing continues on DATA.INVOICES.
SYSLHVERIFY and SYSLHGROUP are not cleared.
Detailed group information is saved in the SYSLHGROUP table. */

declare subroutine verify_lh
declare function get_status
TableList = "ORDERS":@FM:"DATA.INVOICES"
Verify_LH("DATAVOL", TableList, 1, 1, 1)
If Get_Status(ErrCodes) Then
    GoSub ErrorHandling
End
return 0
ErrorHandling:
    * process errors here
return

```