

DBA_DatabaseMapRequest – Database Map SQL Request Services

Revision history

2017-04-05	Robin Lamacraft	Original draft
2018-04-16	John Lucas	Minor edits
2018-06-19	Rod Thompson	Revise REQUIRED SERVICES - Dependencies

SCOPE

This module reviews the SQL of each request to check that the database structure continues to support the handling of this request in the way that it is presented. If for any reason the method of accessing particular information in the database has changed, then this module maps the SQL to the revised methods. It may well have to post-process data retrieved or saved because of the mapping, before that result or status is returned to the calling module.

NOTE: Most of the SQL requests received by DBA_DatabaseMapRequest will be transmitted to DBA_DatabaseTransaction without change. The insertion of the module here is to better protect the application from database schema modifications.

ACTIONS:

1. Filter all SQL database requests for potential mismatch with the current database schema. Ideally, the wrapper of a SQL request should identify the schema version(s) that it has been tested with via lookup in a system database. **(The locations for storing the current schema version in the database and the schema version of the request need to be explicitly stated here)**
2. Map the SQL request to a new form and on completion perform any back-conversion required so that the calling module does not know that the database has changed
3. Receive status messages or retrieved data from DBA_DatabaseTransaction and return that information to its calling module
4. Return other status information that it creates to its calling module.

USED BY

DBA_DatabaseValidateRequest.

AUXILARY DATA USED

Unknown.

REQUIRED SERVICES – Dependencies

First-Order Dependencies	Second-Order Dependencies	Higher-Order Dependencies
11.03 DBA_DatabaseTransaction	12.01 DBE_PerformDatabaseRequest	NIL

APPLICATION PROGRAMMING INTERFACE (API)

1. **Need Details.**

WARNING CONDITIONS

1. **Need details of the condition that raised the warning, example message and possible next steps.**

ERROR CONDITIONS

1. **Need to record the condition that raised the error, example message and possible next steps.**

