Database_Services

Service module to handle common interactions with the Linear Hash database.

Syntax

Response = Database_Services(@Service, @Params)

Returns

The meaning of the response value depends on the service.

Parameters

Parameter	Description	
@Service	The name of the service being requested. Required.	
@Params	Generic parameters. Refer to a specific service to determine the actual parameters used	

Remarks

This module provides several useful services for high level interaction with database tables and rows.

Services

Service	Description				
Calculate Column	Usage: Database_Services('CalculateColumn')				
	Comments: Called directly from within a calculation column. The name of the table and column is derived from the call stack and the associated table commuter, if it exists, is called with the appropriate arguments.				
	Returns: The result of the calculated column.				
ClearTab leHandle	Usage: Database_Services('ClearTableHandle', TableName)				
	Comments: Clears the table handle array array from cache. This will force the GetTableHandle service to call the Open statement again.				
	Returns: N/A				
DeleteDa taRow	Usage: Database_Services('DeleteDataRow', TableName, KeyID, IgnoreSelfLock, IgnoreMFSRoutines)				
	Comments: Deletes a data row for the indicated Key ID and database table.				
	Returns: N/A				
GetKeyID Lock	Usage: Database_Services('GetKeyIDLock', TableName, KeyID, IgnoreSelfLock)				
	Comments: Attempts to perform a semaphore lock on the indicated tablename and Key ID.				
	Returns: A Boolean flag indicating if the lock request was successfully performed.				

GetTable Commut er	Usage: Database_Services('GetTableCommuter', TableName) Comments: Returns the name of the indicated table's commuter module if it exists. If it does not exist then an empty string will be returned.					
	Returns: See comment					
GetTable Handle	Usage: Database_S	Usage: Database_Services('GetTableHandle', TableName)				
	Comments: Returns an @FM list of currently attached OpenInsight database tables.					
	Returns: The handle array created by the Open statement.					
GetTable Names	Usage: Database_Services('GetTableNames', ApplicationTablesOnly, ExcludeDictionaries, ExcludeIndexes)					
	Comments: Returns an array of information related to the database table being passed in.					
	Returns: See comments.					
GetTable Properties	Usage: Ties Database_Services('GetTableProperties', TableName)					
	Comments: Returns an array of information related to the database table being passed in. Returns: An @FM delimited array of table information:					
	Attribute	Description				
	<1>	Database ID				
	<2>	MFS/BFS list				
	<3>	Volume Label (if available)				
	<4>	Volume Path (if available)				
	<5>	BFS (if available)				
GetUserL ocks	Usage: Database_Services('GetUserLocks')					
	Comments: Note, this can only be done with the UD 5. This can also cause instability with the current session and may require the Task Manager to close the session.					
	Returns: Returns a dynamic array of user lock information.					
IsKeyIDL ocked	Usage: Database_Services('IsKeyIDLocked', TableName, KeyID, IgnoreSelfLock)					
	Comments: Returns a Boolean flag of the lock status for the indicated table and Key ID.					
	Returns: See comment	is.				
IsKeyIDS elfLocked	Usage: Database_Services('IsKeyIDSelfLocked', TableName, KeyID)					

Comments:Returns a Boolean flag of the self-lock status for the indicated table and Key ID.

Returns: See comments

ReadDat aRow	Usage: Database_Services('ReadDataRow', KeyID, NotExpired, ExpirationDuration, IgnoreMFSRoutines)					
	Comments: Reads a data row for the indicated Key ID and database table.					
	Returns: The requested data row.					
ReleaseK eyIDLock	3					
	Comments: Attempts to release a semaphore lock on the indicated tablename and Key ID.					
	Returns: A Boolean flag indicating if the lock release was successfully performed.					
Searchin dex	Usage: Database_Services('SearchIndex', TableName, ColumnName, SearchValue, UpdateIndex)					
	Comments: Returns an @FM delimited list of Key IDs that match the search value.					
	Returns: See comments					
SetTable Alias	Usage: Database_Services('SetTableAlias', TableName, AliasName, Volume, DatabaseID)					
	Comments: Attempts to create an alias for the indicated table, volume, and database. It returns a True\$ if successful or a False\$ if unsuccessful.					
	Returns: A Boolean flag indicating if the alias request was successfully performed.					
UnlockK eyID	Usage: Database_Services('UnlockKeyID', TableName, KeyID)					
	Comments: Attempts to unlock the indicated Key ID from the indicated Table Name. Note, this can only be done with the UD 5.					
	Returns: A Boolean flag indicating if the unlock request was successfully performed.					
VerifyLH	Usage: Database_Services('VerifyLH', Tablenames, SaveList)					
	Comments: Performs a health check against the indicated tables and returns back any issues. Note: This uses the Verify_LH subroutine to check for GFEs. All results are stored in the SYSLHVERIFY table with a KeyID of VolumeLabel DatabaseID TableName. Returns the list of groups that have GFEs or returns an empty string if there are none. The list of GFEs or empty strings will themselves be @FM delimited to correspond with the tables passed into this service.					
	Returns: An @FM delimited array of table names and associated GFE information.					
VerifyLH All	Usage: Database_Services('VerifyLHAll')					
	Comments: Performs a health check against all attached tables and returns back any issues.					
	Returns: Returns two lists which are delimited by an @RM. The first list is an @FM list of attached tables. The second list is an @FM list of results (groups that have GFEs or an empty string if there are none). Items in each list correspond which each other based on their list position.					
WriteDat aRow	Usage: Database_Services('WriteDataRow', TableName, KeyID, DataRow, IgnoreSelfLock, IgnoreMFSRoutines, IgnoreAllLocks)					
	Comments: Writes a data row for the indicated Key ID and database table.					
	Returns: N/A					

Params

The proper use of the generic arguments are defined in the definition of each service above.