## Command Reference: WriteTableToDataStore()

Write a table to a datastore

Version 10.18.00, 2013-03-03

This command is under development and has the following limitations:

- Although some error handling has been implemented, it is not very detailed. Improvements will be made in response to exercising the command functionality.
- Write statements are created for each row of the table being written. This is inefficient and slow. Improvements will be made in future updates.
- Functionality has been tested mainly with SQL Server.
- Handling of date objects has not been tested.
- Better handling of blank rows needs to be implemented.

The WriteTableToDataStore () command processes each row in a table and executes an SQL statement to insert the row into a database datastore. If database datastore support is not specifically provided by TSTool, a generic datastore can be used (see the **Generic Database Datastore** appendix). This command cannot be used with web service datastores and use with Excel datastores has not been tested. This command is useful in particular for bulk data loading such as for database initialization and when tight integration with TSTool is not required or has not been implemented. In the future additional command parameters may be added to limit the rows that are being written and allow update functionality.

General constraints on the query are as follows:

- the table or views being written must be writeable by the user specified for the database connection (some databases restrict direct access to data and require using stored procedures)
- the table column names must match the database table column names (in the future a command parameter may be added to allow column names to be mapped)
- data types for table columns must closely match the database:
  - o internally an SQL statement is created in which data values are formatted as per the data type (e.g., strings are quoted); consequently column types must be appropriate to generate correct formatting
  - the full precision of floating point numbers is passed to the database (formatting for display will not apply to values written to the database)
  - o null values in the table will transfer to null values in the database
  - o date/time columns in the table will be represented as such in the database table; however, it may not be possible to limit the precision of the date/time (i.e., hours, minutes, and seconds may be shown with default zero values in output)
- the specified table columns are written (all are written by default)
  - o primary keys in the database table do not need to be specified (their values will be assigned automatically)
  - o table columns that correspond to related tables in the datastore table need to be mapped using the DataStoreRelatedColumnsMap command parameter

An example of column mapping to a related table is as follows, using the notation Table.Column to fully identify columns:

the string TableID. DataType column is in the input data

• an integer database table TimeSeriesMeta.DataTypesID column is a foreign key to DataTypes.DataTypesID, and DataTypes.Abbreviation is the string data type – in other words, the datastore column being written does not match the string data type, but uses a relationship to match the integer data type in a separate table

To handle this relationship:

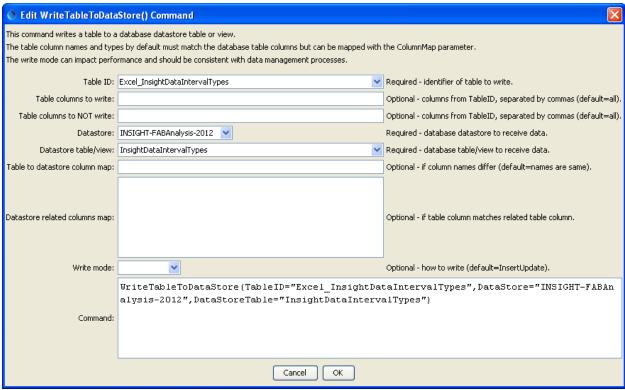
• Use the ColumnMap parameter to tell the command that the DataType column in input table maps to the DataTypesID column in the datastore table:

```
ColumnMap="DataType:DataTypesID"
```

• Use the DataStoreRelatedColumnsMap parameter to tell the command that the DataTypesID column should be looked up the Abbreviation column, which is a second level of column mapping:

```
DataStoreRelatedColumnsMap="DataTypesID:Abbreviation"
```

The following dialog is used to edit the command and illustrates the syntax for the command, in this case writing a table to a datastore that was defined as a GenericDatabaseDataStore.



WriteTableToDataStore() Command

WriteTableToDataStore

The command syntax is as follows:

WriteTableToDataStore (Parameter=Value,...)

## **Command Parameters**

TableID Identifier for table to write.  The names of the table columns to write, separated by commas.  ExcludeColumns  The names of table columns NOT to write, separated by commas. This will override IncludeColumns.  The name of a database datastore to receive data.  The name of a database table or view to receive data.  The name of the database table or view to receive data.  The name of the database table or view to receive data.  The name of the database table or view to receive data.  The name of the database table or view to receive data.  The name of the database table or view to receive data.  The name of the database table or view to receive data.  TolumnMap  Indicate which columns in TableID have different names in DataStoreTable, using the syntax: ColumnName: DatastoreTableName, columns are assumed to match the column names in TableID  DataStoreRelated  ColumnSMap  DataStoreFable may refer to a related table using a foreign key relationship (matching integer column in both tables). It is expected that the related table will have only one primary key column, which will be determined automatically. However, a column mapping must be provided to tell the command which DataStoreTable column should be matched with the related table. The syntax of the parameter is: DataStoreTableColl:RelatedTableColl, DataStoreTable columns. If the database does not explicitly define a foreign key relationship in the database design, then specify the right side of the map as: RelatedTable1.RelatedColl.  The method used to write data, recognizing the databases use insert and update SQL statements, one of:  DeleteInsert - delete the data first	Parameter	Description	Default
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RelatedTable1.RelatedCol1.  WriteMode The method used to write data, recognizing the databases use insert and update SQL statements, one of:  • DeleteInsert - delete the data first			
WriteMode       The method used to write data, recognizing the databases use insert and update SQL statements, one of:       InsertUpdate         ● DeleteInsert – delete the data first       InsertUpdate		-	
the databases use insert and update SQL statements, one of:  • DeleteInsert – delete the data first			
statements, one of:  • DeleteInsert – delete the data first	WriteMode		InsertUpdate
DeleteInsert – delete the data first			
and then insert (all values will need to be			
· ·		and then insert (all values will need to be	
matched to delete)		· ·	
• Insert – insert the data with no		• Insert – insert the data with no	

Parameter	Description	Default
	attempt to update if the insert fails	
	• InsertUpdate – try inserting the data	
	first and if that fails try to update	
	• Update - update the data with no	
	attempt to insert if the update fails	
	• UpdateInsert – try updating the data	
	first and if that fails try to insert	

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