

# User Guide

## Datgel Administrator Tools gINT Add-In 2

DAT-UG-001 - 2.01  
May 2011



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# Contents

About the Product.....	ii
What is New in Version 2? .....	ii
Support .....	ii
System Requirements .....	iii
gINT .....	iii
Hardware and Operating System .....	iii
Required Windows Components.....	iii
Conventions and typography used in this guide .....	iii
Field Colours.....	iii
1 Installation and Licensing.....	1
1.1 Installation Overview.....	1
1.2 Package Contents .....	1
1.3 Before Installation .....	1
1.4 Install DLL Programs .....	1
1.5 Merge gINT Library Objects .....	4
1.6 Validate License .....	7
1.7 Upgrading from Version 1 to Version 2 .....	7
2 Running the Tool Add-Ins .....	8
3 Convert Projects Tool.....	9
3.1 Selecting Table Name and Field Name.....	9
3.2 Browsing for gINT Project Files .....	9
3.3 Selecting the Projects to Convert .....	10
3.4 Selecting the Data Template and Correspondence File .....	10
3.5 Other options .....	10
4 Export Tool.....	11
5 Find or Set Property Tool .....	13
5.1 Example 1 - Find.....	14
5.2 Example 2 - Set .....	15
5.3 Batch Mode.....	16
5.4 Table Key Fields and Indices .....	18
6 SQL Tool .....	19
6.1 Exporting Data using the SQL Tool .....	20
7 Lookup List Check Tool.....	21

## Tables

Table 1 – Field Colours .....	iv
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# About the Product

The *Datgel Administrator Tools* gINT Add-In consists of 5 tools that provide powerful functionalities and capabilities to your existing gINT system.

- **Convert Project Tool:** Convert gINT access projects with extended options.
- **Export Tool:** Exports data to several files types, either one file per PointID or all PointIDs in one file, and allows the user to define a filter.
- **Find and Set Property Tool:** Find or Set the property of a database, table or field in gINT.
- **SQL Tool:** Builds and executes SELECT, UPDATE, INSERT and DELETE SQL statements.
- **Lookup List Check Tool:** Checks all tables and fields in the gINT project for lookups and verifies the value with the lookup source.

You need to complete the installation procedure (see Installation and Licensing on *page 1*) and activate (see *Datgel Product Licensing System User Guide*) before you can use the Administrator Tool.

This document has been written using gINT v8i (8.3) features and settings.

## What is New in Version 2?

- Where applicable, the *Datgel Administrator Tools* gINT Add-In also now supports gINT SQL Server (Enterprise) databases.
- Convert Projects Tool
  - Sub-folder search depth
  - Informational Field caption grid column, and improved grid control
- Export Tool
  - Option to create a separate worksheet for each PointID
  - List tables to export
- Find or Set Property Tool
  - Replace Substring option added – it is now possible to only partially change a value
  - Batch Mode – This tool gives the user the ability to save an .xml file to record a set configuration of settings, and then re-use that configuration as required
- SQL Tool
  - Project Select Options – it is now possible to run SQL queries by Current Project Only, All Projects, and Selected Project(s) in an Enterprise database
- Lookup List Check Tool
  - Project Select Options – it is now possible to run the Lookup List Check tool against the Current Project, All Projects, and Selected Project(s) in an Enterprise database

## Support

12 months support and maintenance is included with the license purchase, and the support and maintenance subscription may be renewed on an annual basis. For technical support please email [support@datgel.com](mailto:support@datgel.com) or call +61 2 8202 8600.

# System Requirements

## gINT

The product will run using gINT 8.2 or higher. The Enterprise database option require gINT 8.3 or higher

The product will run using gINT Logs, gINT Logs Plus (8.2 or order), gINT Professional, and gINT Professional Plus.

## Hardware and Operating System

Same system requirements as gINT 8.2, see: [http://www.gintsoftware.com/products\\_requirements.html](http://www.gintsoftware.com/products_requirements.html).

## Required Windows Components

1. Windows Installer 3.1
2. .NET 3.5 Framework SP1

## Conventions and typography used in this guide

Note: Tips and additional Information to help you.

>	Used to indicate a series of menu commands. e.g. Select <b>File &gt; Open</b> .
	Used to indicate a gINT Application Group, Application, Table Group or Table , e.g. <b>DATA DESIGN   Project Database</b>
<b>Bold Text</b>	Items you must select, command buttons, or items in a list. e.g. Navigate to <b>UTILITIES   Convert Projects</b> (4 <sup>th</sup> tab).
<i>Italics Emphasis</i>	Use to emphasize the importance of a point such as parameters. e.g. Data Entry – Check <i>Omit Must Save prompt when save is required</i>
CAPITALS	Names of keys on the keyboard. for example, SHIFT, CTRL, or ALT.
KEY+KEY	Key combinations, for example CTRL+P, or ALT+F4.
Code Snippet	Indicates a code snippet within a paragraph
<code>Code sample</code>	Indicates a sample program codes inserted in user guide e.g. <code>public override string ToString ()</code>
File name or path	Used for formatting file name and paths e.g. di_lib.glb or V:\10 gINT\Datgel Install Files\
Table_Name	Database table name, e.g. POINT_TABLE.
Field_Name	Database field name; e.g. PointID
Command line	Command line, presented exactly as it must be entered e.g. <code>cdir</code>

## Field Colours

Each of the fields in the project tables have been coloured to improve the data entry process as indicated below in Table 1.

**Table 1 – Field Colours**

Field Colour	Field Name and Explanation
Yellow	gINT Key Field – mandatory data entry
Pastel Purple	AGS Data – data associated with the AGS Data Interchange Format
Pastel Green	Calculated Field – data is written to this field by Datgel's code
Pastel Beige	Data Entry Field – data should be entered into this field, or data in this field influences the calculation
Pastel Red	Legacy Data Field – historic data entered here, is typically from an old database
Pastel Blue	Output Option – used to control how data displays on a report
Pastel Orange	Remark or Metadata Field – additional data associated with the primary information
Grey	Read-only

# 1 Installation and Licensing

## 1.1 Installation Overview

There are three parts to the installation process:

- Install DLL programs
- Merge gINT library objects
- Validate the product license

The *first two* steps can be performed in any order and are described below. The validation procedure must be done last and is described in the *Datgel Product Licensing System User Guide*.

## 1.2 Package Contents

Your software purchase may have come with the following contents:

- Applications CD which normally has the following folders:
  - \gINT Files
  - \Documentation
  - \Installation files
- A hardware license key

## 1.3 Before Installation

A few basic preparations can help ensure an effortless installation.

- Make sure that the computer where you plan to install the program meets the minimum hardware and software requirements.
- Connect your PC to the Internet before installation (must have a working Internet connection).
- The Administrator Tool requires that the Microsoft .NET 3.5 framework is installed on the PC prior to the installation of the Tool. If your PC does not have the .NET 3.5 framework installed, then it will be automatically downloaded and installed during the Tool installation process.
- Log into the PC with Administrator privileges before starting installation.
- It is recommended that you exit out of other applications that maybe running on your PC.
- Close gINT before you start installation.
- Keep the serial number and license number handy.

## 1.4 Install DLL Programs

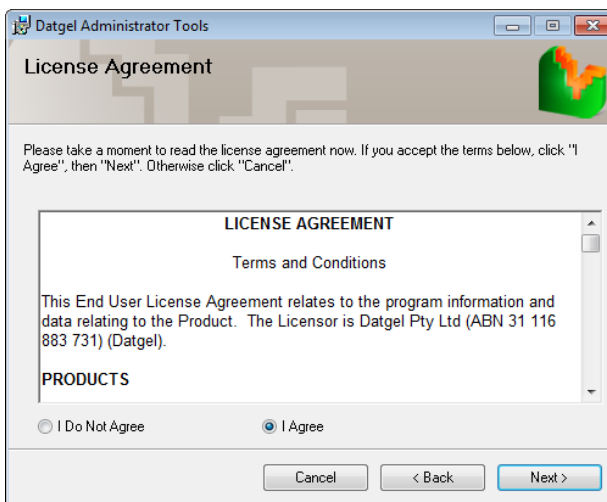
1. If you received an installation CD, then insert the CD and browse to the folder  
  \Installation Files
2. Double click the file named `Setup.exe`
3. Click **Run** to begin installation.

Follow the on screen instructions when installation begins.

4. Click **Next** on the *Welcome to the Datgel Administrator Tool Setup Wizard* dialog.



5. Scroll and carefully read the *License Agreement*, and choose option **I Agree**, and click **Next**.

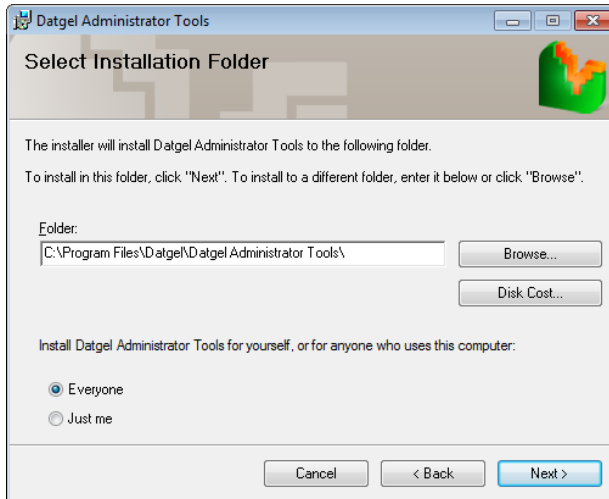


Alternatively choose **I Do Not Agree** and click **Cancel** if you disagree with the license agreement. The installation will stop and exit.

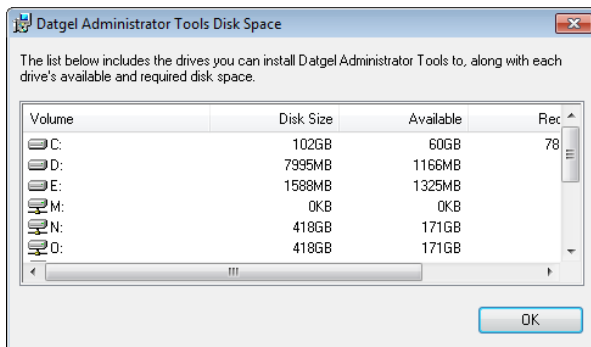
6. On the *Select Installation Folder* dialog, either accept the default folder (recommended) or select **Browse** to specify the folder where you want to install the Administrator Tool.

7. Leave *Everyone* bulleted to indicate that anyone logged onto the PC can use the Administrator Tool.

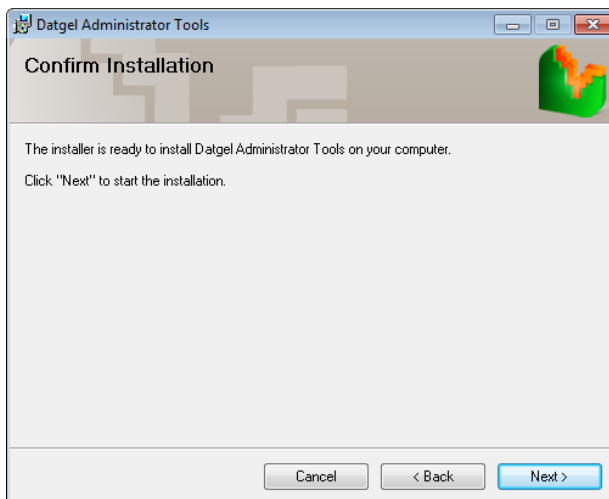
Click **Next** when ready.



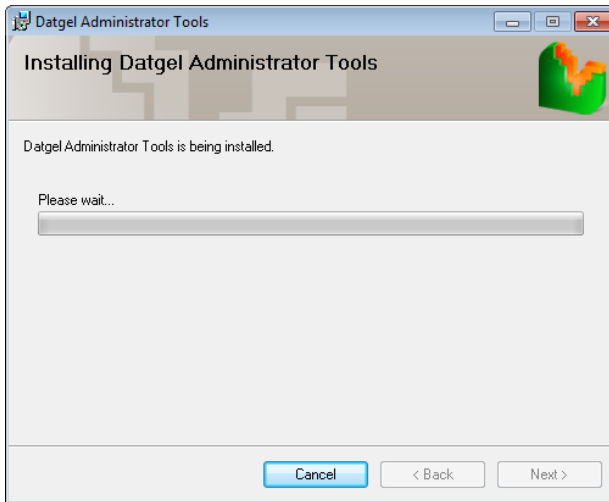
**OPTIONAL** Click on **Disk Cost** to view the disk space statistics. Click **OK** when done.



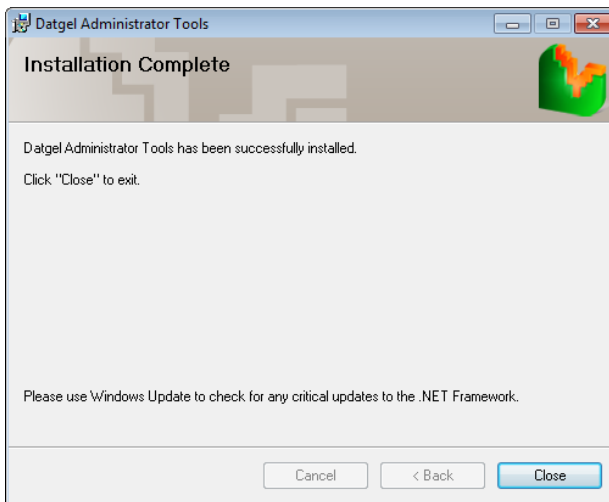
8. Click **Next** to start installation.



- Observe the progress bar to monitor installation progress



- Click **Close** when the *Installation Complete* dialog is displayed.



## 1.5 Merge gINT Library Objects

**Note:** If Step 1.5 has already been completed by Datgel's developers, yourself or a colleague, then proceed to Step 1.6 Validate License.

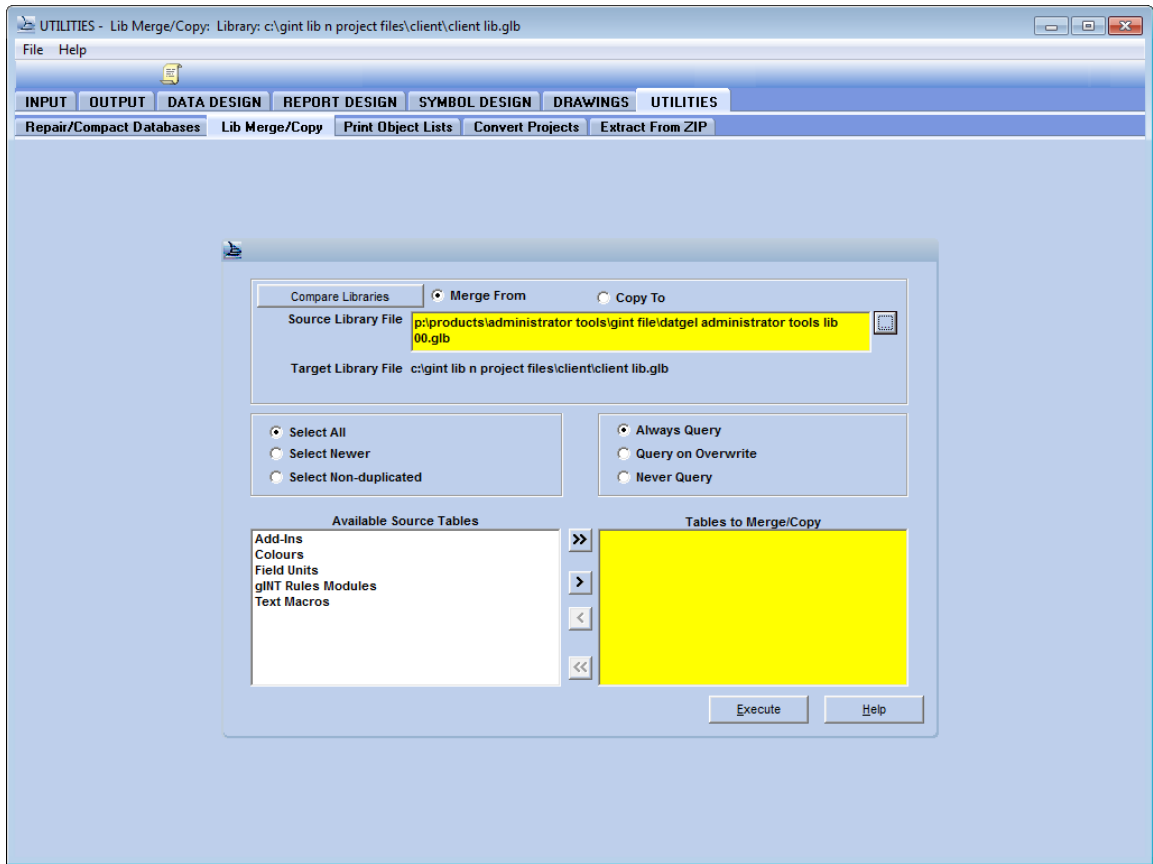
Proceed with the following steps to merge the gINT Library components into your Library file.

- Make a backup copy of your existing library file. By default this is located at:  
`C:\Users\Public\Documents\Bentley\gINT\libraries`
- Start gINT, open the library and the project file you wish to use with Datgel Administrator Tool gINT Add-In.


The opened project and library files are displayed at the top of the gINT Window.

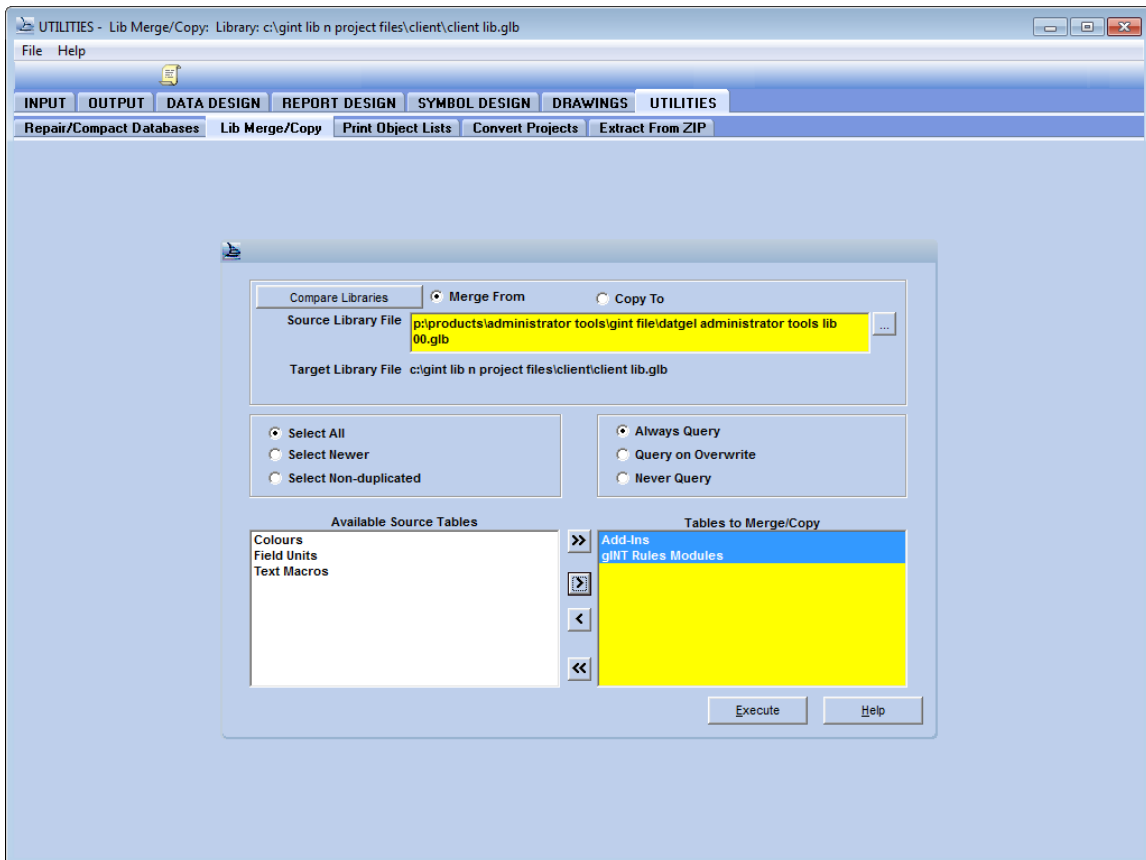



3. Select **UTILITIES | Lib Merge/Copy**.

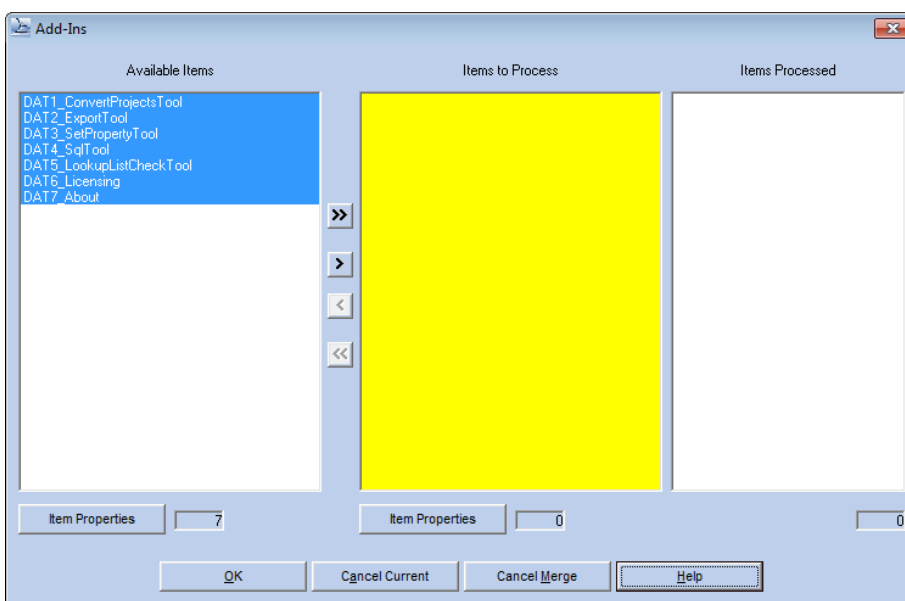


4. Check the bullet that reads **Merge From**.
5. In the Source Library File pane, browse the installation CD for file *Datgel Administrator Tool lib #.##.glb* where *#.##* is the version number.
6. Check the bullet that reads **Select All**.
7. Check the bullet that reads **Query On Overwrite**.

8. Select the *Add-Ins* and *gINT Rules Modules* source tables and click  button to move selected tables from the *Available Source Tables* pane on the left to the *Tables to Merge/Copy* pane on the right side.

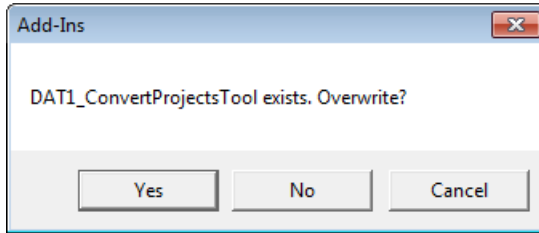


9. Click **Execute**.
10. Click  button to move the selected items (highlighted blue) from the *Available Items* pane to the *Items to Process* pane on the *Add-Ins* dialog.



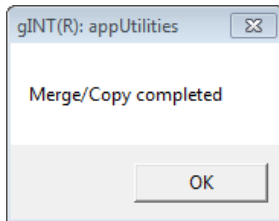
11. Click **OK** to process selected items.
12. Repeat steps 10 and 11 for all other items.

13. Take care to read the overwrite dialog and click **Yes** if you wish to overwrite the file, ELSE click **No**.



This will merge in the *Add-Ins* and *gINT Rules Modules* related to the Tool.

14. Click **OK** to finish the merge.



## 1.6 Validate License

After installation (and before using the Administrator Tool), validate the user license as described in Chapter 3 of the *Datgel Product Licensing System User Guide*.

**Note:** You only need to validate this product when you run the Datgel Administrator Tool in gINT for the first time.

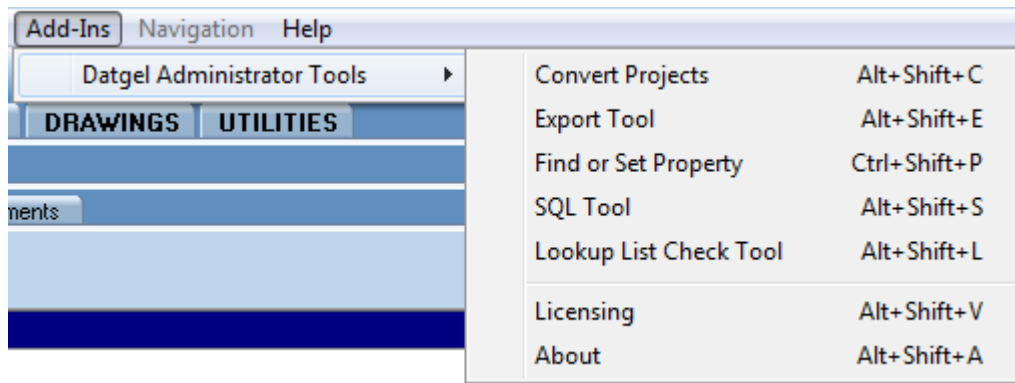
## 1.7 Upgrading from Version 1 to Version 2

Considering the Tool is independent of the project files and tables, it is a simple task to upgrade to version 2.

1. Merge the new gINT Library Objects into your library file as described in section 1.5. Overwrite existing objects.
2. Datgel will email you a URL for the license update file. Download the file, but do not unzip the file. Follow section 3.2 step 2 or section 3.3 step 3 in *Datgel Product Licensing System User Guide* to update your hardware key to be licensed for version 2.

## 2 Running the Tool Add-Ins

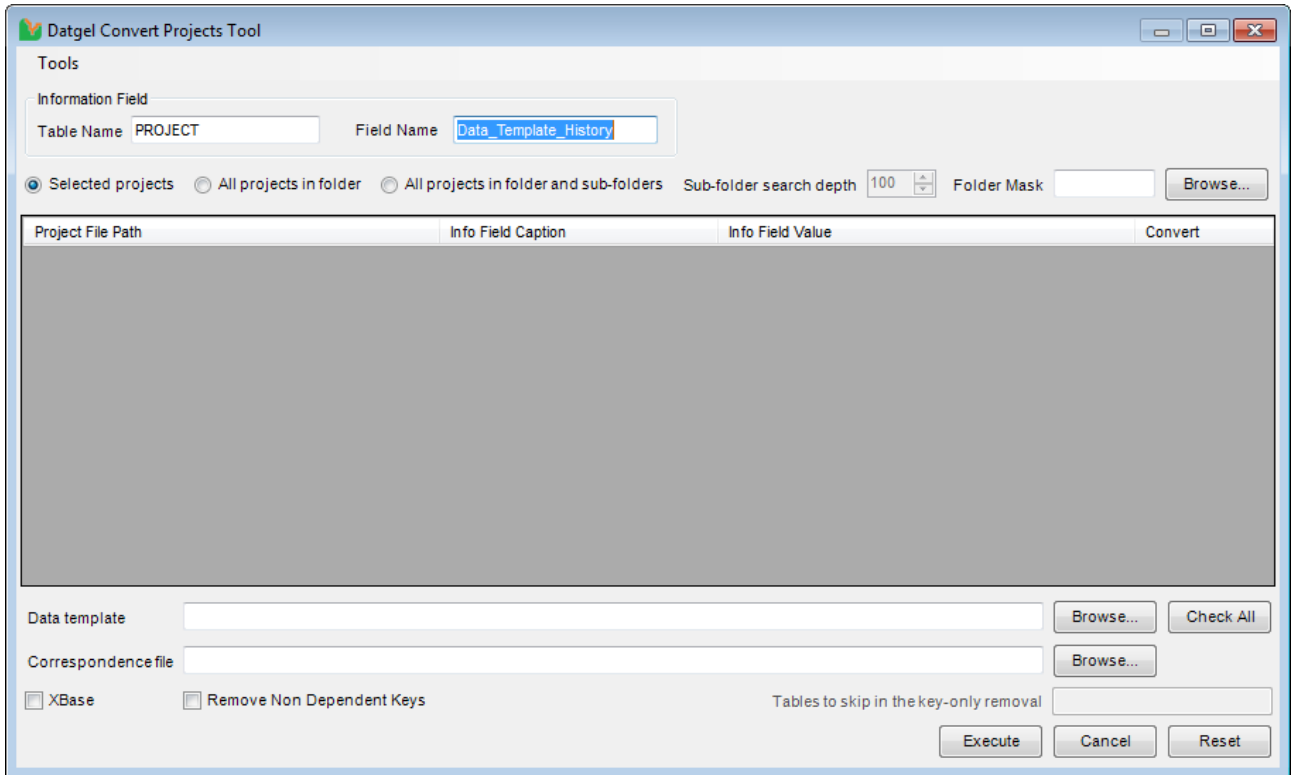
Select the **INPUT | Add-Ins > Datgel Administrator Tools** to launch the tool.



The **About** command will display the About Datgel Administrator Tools form.

# 3 Convert Projects Tool

The Convert Project Tool does a similar task to the native gINT command **UTILITES | Convert Project**, but provides the option to search folders and sub-folders for gINT projects and list the contents of a field on a Project level table that could store the version number of the project file. This tool was designed to help a company gINT Administrator manage the data template file versions of gINT projects stored in many folders on a file server.



Select **INPUT | Add-Ins > Datgel Administrator Tools > Convert Projects** to launch the Datgel Convert Projects Tool.

## 3.1 Selecting Table Name and Field Name

To display the value of a field in the selected projects for comparison, enter the table name and field name in the text fields before browsing for gINT project files.

For example Table Name: [PROJECT](#); and Field Name: [Data\\_Template\\_History](#)

## 3.2 Browsing for gINT Project Files

To browse for gINT project files, you have 3 options:

- **Selected projects** – browses a single folder and allows you to select project files in the specified folder.
- **All projects in folder** – browses to a single folder and it automatically selects all project files found in that folder only.
- **All projects in folder and sub-folders** – browse to a specified folder and automatically select all project files found within the named folder and its sub-folders, to a desired folder level. To search all subfolders, leave the default value as 100.

Check the desired option and click **Browse** to continue. You may set the initial folder path when browsing by going to **Tools > Set Initial Folder** and selecting the root folder that you want the Convert Projects Tool to start from.

**Folder Mask** – when searching for projects in folder and sub-folders, you can exclude a folder or sub-folders from being searched by its name by entering the name of the folder in the Folder Mask field. The field allows the use of \* as a wildcard, and is not case sensitive.

For example, entering *o/\** will exclude project files located in folders named *old*, *OLD*, *Old\_1*, *Old\_2*, etc.

### 3.3 Selecting the Projects to Convert

After browsing for gINT project files, the selected project files are displayed in a table, consisting of the project file path, data from the assigned table/field name and a convert checkbox. By default, all projects are unchecked. Click on the **Check All** button to check all projects, and **Uncheck All** to do the reverse. Alternatively, you can manually check the projects you wish to convert by checking the boxes.

### 3.4 Selecting the Data Template and Correspondence File

Set the new data template (\*.gdt), and optionally the correspondence file (\*.gci).

The following gINT code can be placed in the correspondence file for [PROJECT.Data\\_Template\\_History](#) in order to append the convert file history. Replace the XX with your new version number.

```
"Converted to XX: <<Format(<<Now>>,dd/mmm/yyyy  
hh:nn:ss)>><<CR>><<PROJECT.Data_Template_History>>"
```

### 3.5 Other options

Refer to the gINT On-line help for a definition of:

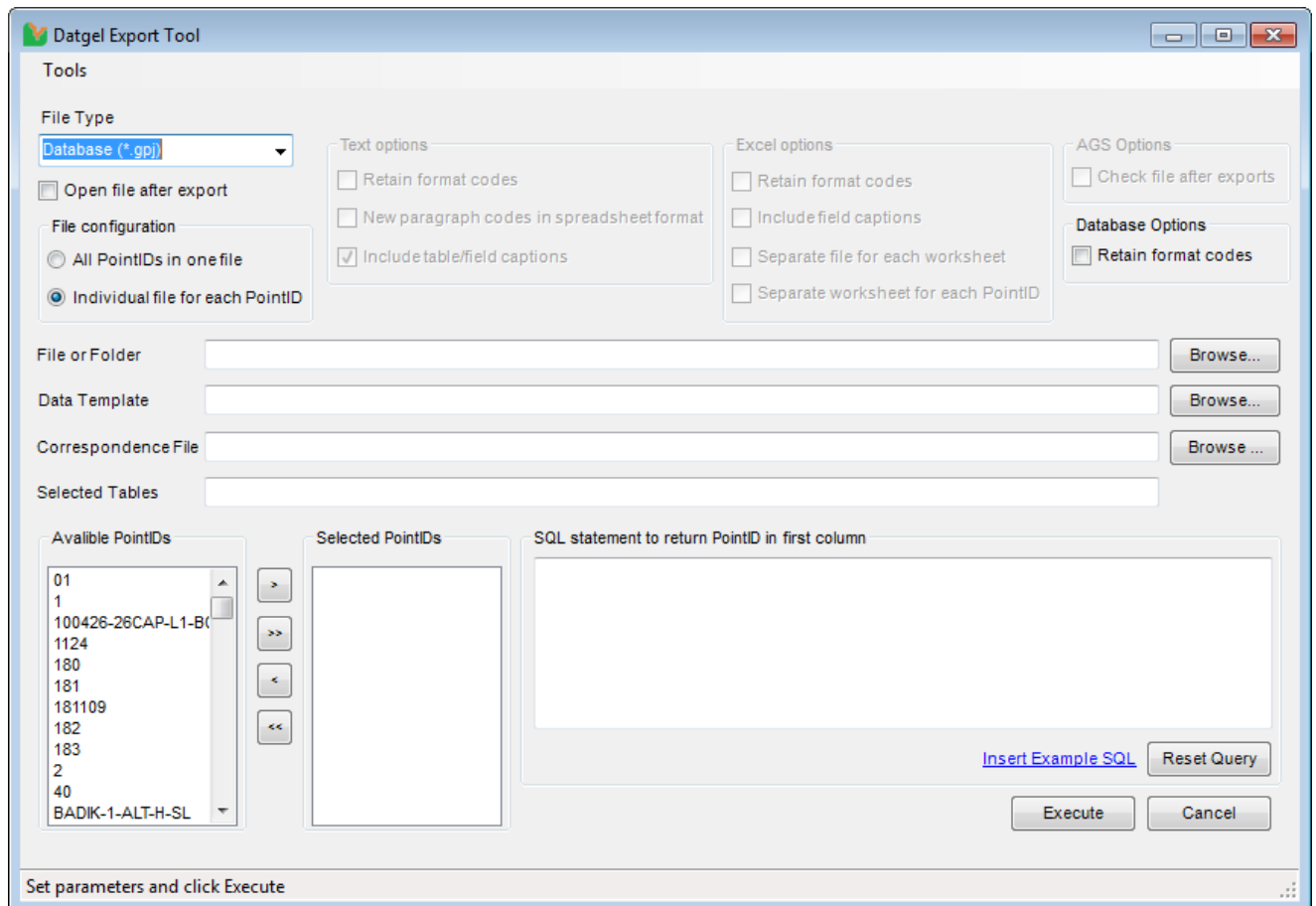
- XBase
- Remove Non Dependent Keys
- Tables to skip in the key only removal

# 4 Export Tool

The Datgel Export Tool is designed to export most gINT exportable data formats to either individual files or all in one file. In addition, the Tool allows the user to write a SQL query or use a pick to define the PointID to export.

This Tool works with the current selected project in an Enterprise database.

Select **INPUT | Add-Ins > Administrator Tools > Datgel Export Tool** to launch the Datgel Export Tool.



The file formats supported are:

- Text (\*.csv)
- Text (\*.dat)
- Text (\*.txt)
- Excel (\*.xls, \*.xlsm, \*.xlsx)
- Database (\*.gpi)
- Database (\*.mdb)
- AGS (\*.ags)

Each file type group has specific options. For an explanation of these options please read the relevant gINT Help file topic.

You have a choice of exported file configuration:

- **All PointIDs in one file** – this is what gINT's native exporter does – to define the target file click on the File or Folder browse button.
- **Individual file for each PointID** – unique to the Datgel Export Tool – to define the target folder click on the File or Folder browse button. Each file will have the same name as the exported PointID. Illegal characters such as \ and / are replaced by \_ in the file name.

Optionally you may specify a **data template file** for export to gpj and mdb.

Optionally you may specify a **correspondence file** to export the PointIDs with by browsing to a correspondence file.

Optionally an **SQL statement** may be used to define a list of PointIDs to export. An example SQL statement can be inserted using the hyperlink text.

Optionally you may specify a comma separated list of tables to export in the **Selected Tables** text field. If this field is left blank, then all tables will be exported.

**Default** for many of the forms controls can be set and loaded using the Tool menu commands. The saved defaults are populated when the form is loaded. The initial directory for the File or Folder Browse is defined separately.

**AGS Options** - Check file after exports: the Export Tool will check if the AGS file has been exported correctly.

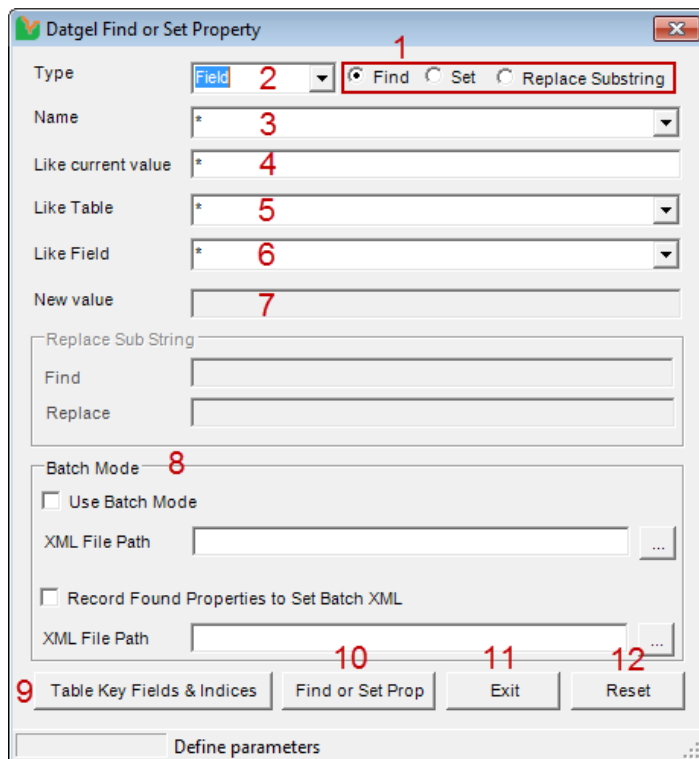
**Excel Options** – Separate worksheet for each PointID: the Export Tool will export the selected PointIDs to one Excel file, and table data for each PointID will be placed in separate worksheets.

# 5 Find or Set Property Tool

Every field, table and database has a list of properties, such as type, value, size that determine its characteristics. The Find or Set Property Tool can search, display and set the properties of fields, tables and the database of a gINT database. These are generally not accessible through gINT.

This Tool is potentially **dangerous**, please be very careful when using it.

Select **INPUT | Add- Ins > Datgel Administrator Tools > Find or Set Property Tool** to launch the Datgel Find or Set Property Tool.



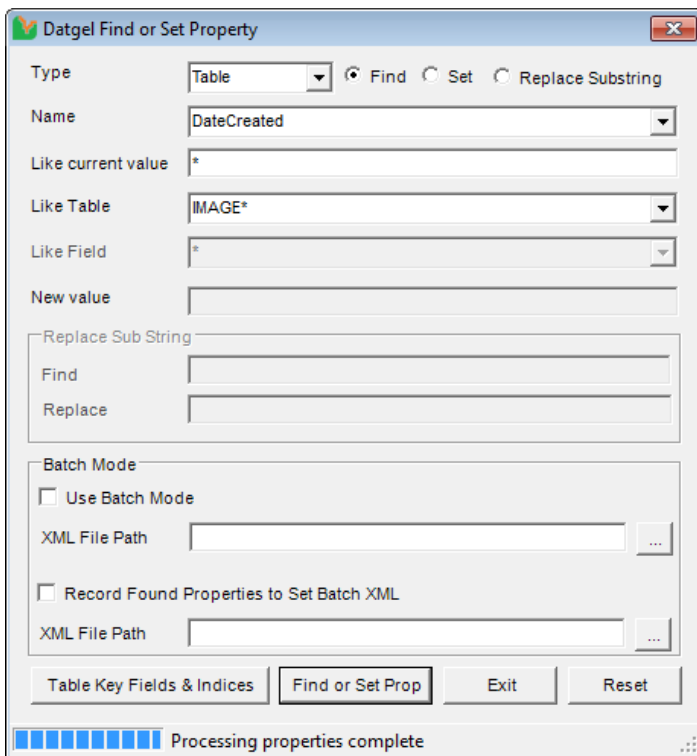
On this screen:

1. **Find, Set or Replace Substring** – Select **Find** if you wish to retrieve the properties of a field, table or database, select **Set** if you wish to change the value of the properties, or select **Replace Substring** if you wish to change only part of a value.
2. **Type** – The types consist of *Database*, *Tables* and *Fields*, where selecting *Database* brings up the properties of the currently open gINT database, selecting tables brings up the properties of a table, and fields brings up the properties of a field .
3. **Name** – Brings up a list of the names of the properties for the selected type. This field is used with a Like comparison, hence \* would return all properties.
4. **Like Current Value** – The result can be filtered by the current value of the property. Typing a value in this field will return properties that have a value with an exact match with what is typed in this box. The \* symbol can be used as a wildcard. For example, if you wish to search by all values that start with p, then you would enter p\*. More importantly, if you do not wish to filter by current value, you must enter \* in the box to signify that you want to search all. These rules apply to the *Like Table* and *Like Field* fields. The *Like Current Value* field is required for all commands.
5. **Like Table** – Filters the results by table name, if you wish to find or set properties in a particular table only. This Field is not needed when *Database* is selected for the type.

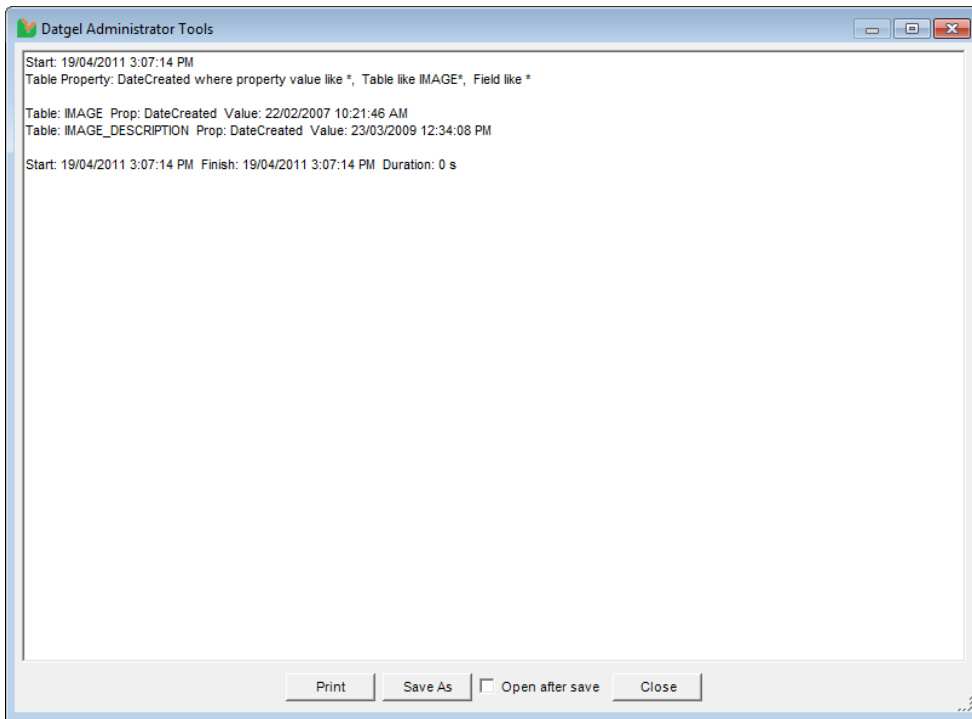
6. **Like field** – Filters the results by field name, if you wish to find or set properties in a particular field only. This field is not needed when *Table* is selected for the type.
7. **New Value** – Used only for the **Set** option, enter a new value you wish to replace the current value of the property with.
8. **Batch Mode** – Allows you to save multiple value settings used by the tool to an XML file, then apply those values over multiple databases.
9. **Table Key Fields & Indices** – Returns the table key fields and indices, filtered by table
10. **Find Set Property** – Runs the query, and then displays results in an output window.
11. **Exit** – Exits the Find or Set Property Tool window.
12. **Reset** – Clears all data in the fields on the form.

## 5.1 Example 1 - Find

If you wish to find the property *DateCreated* in tables that has a name beginning with *IMAGE* in the gINT database, you would enter the values as the following screenshot.



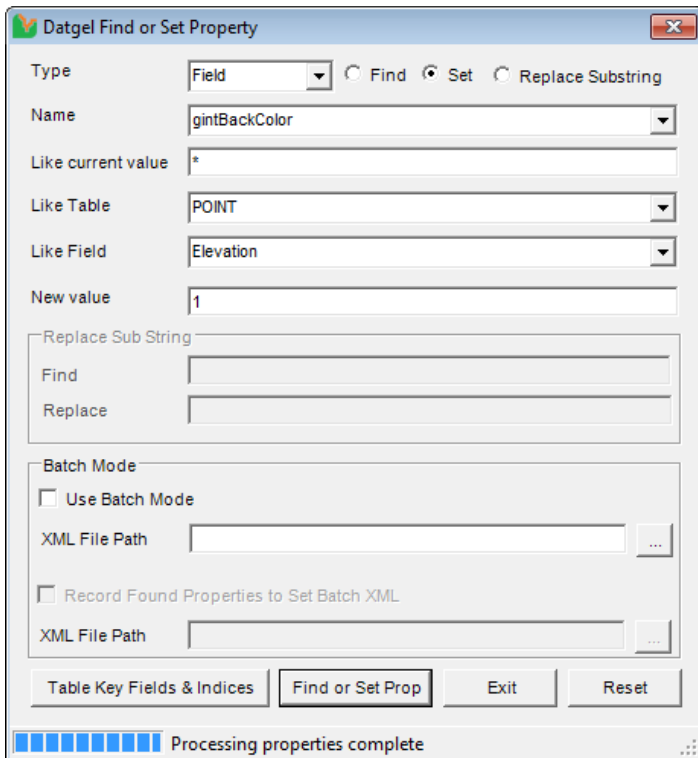
Click **Find or Set Prop** button, and the result will be shown in the output window.



If you are unsure of what to filter by, it is a good idea to search a Name with *Like current value*, *Like Table* and *Like Field* with \* to retrieve all values.

## 5.2 Example 2 - Set

If you want to change the background colour value of the **Elevation** field in the **POINT** table, then enter the values as shown the following screenshot.



Click **OK**, and the value will be changed.

PointID	HoleDepth	Elevation	North	East
017743	10			
B-2	10.15	871.16	6073043.07	261502.
BH01	15			
TP 251	3	24.26	1267371.2	248061
*				

A report will pop up in an output window listing the table and field names in which the changes have been made. If the value could not be changed, then the report will show ERROR: followed by the Table name, and Field if filtered by Field.

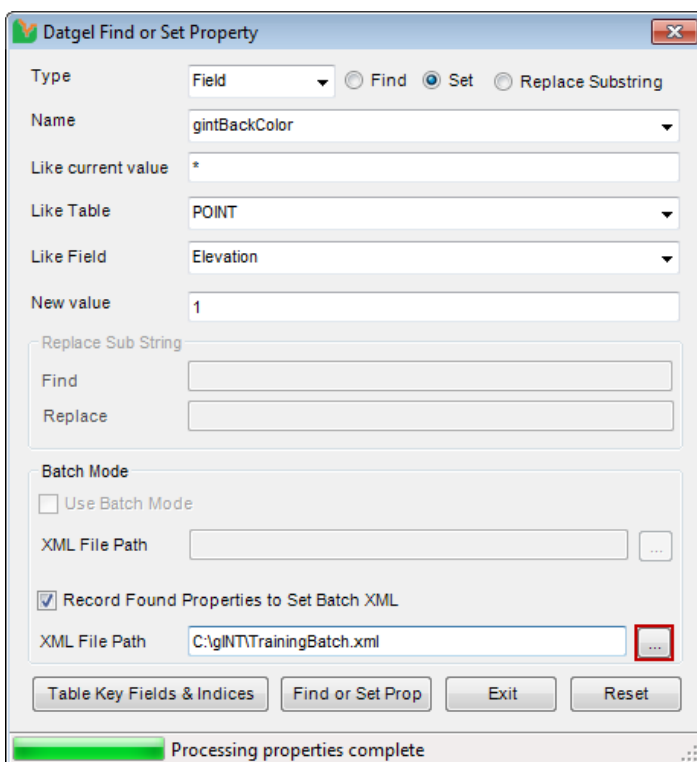
**Note:** You may need to leave close the Project and reopen it in order to view some property changes. Further some property changes will not apply for the current table, hence we recommend you are not viewing an INPUT table that will be edited.

### 5.3 Batch Mode

This tool gives the user the ability to save an .xml file to record a set configuration of settings, and then re-use that configuration as required. This is particularly useful when changing values over multiple databases.

To save your configuration, simply tick **Record Found Properties to Set Batch XML**, Click the ... button to browse to the location you wish to save the XML file at, name the file as required, and click **Find or Set Prop**.

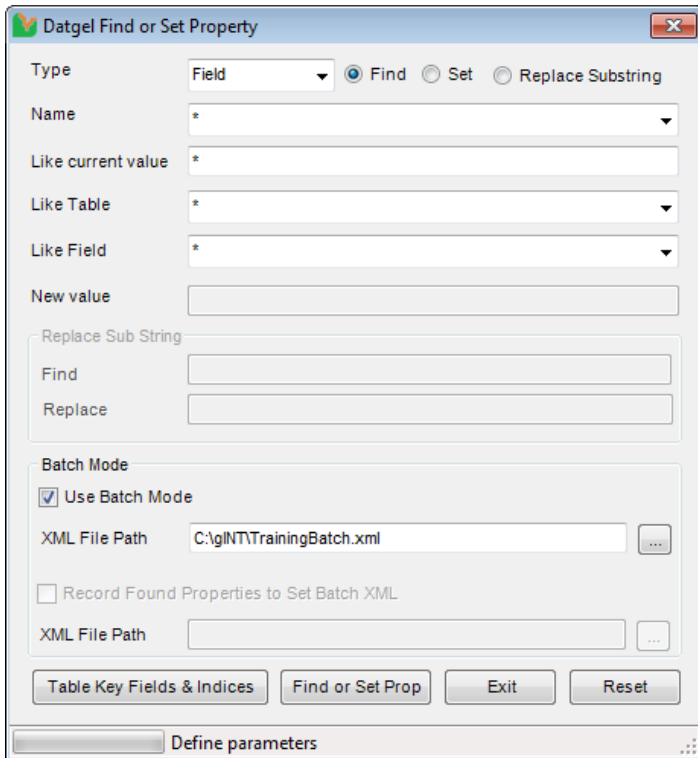
For example, if you wished to save a configuration which changes the gINT background colour of all values in the **Elevation** field of the **Point** table to black, your screen would look like the following screenshot:



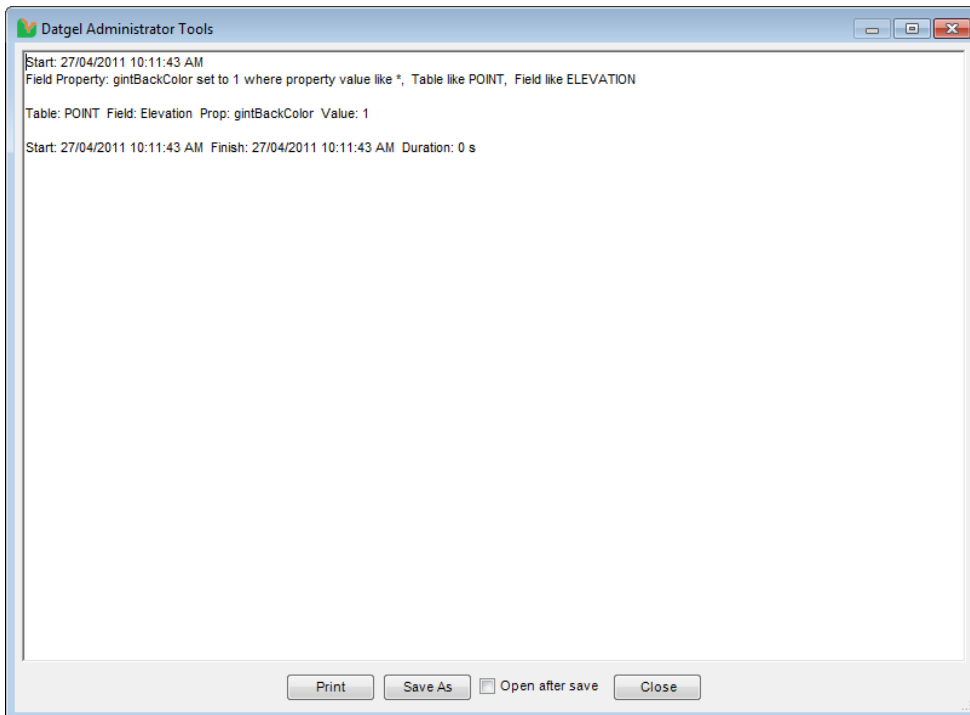
You should then see an XML file saved in the directory specified.

You may save multiple configurations to the one xml file.

To use a previously saved Batch XML file, simply tick **Use Batch Mode**, browse to the location you previously saved the file at, select the file, and then click **Find or Set Prop**.



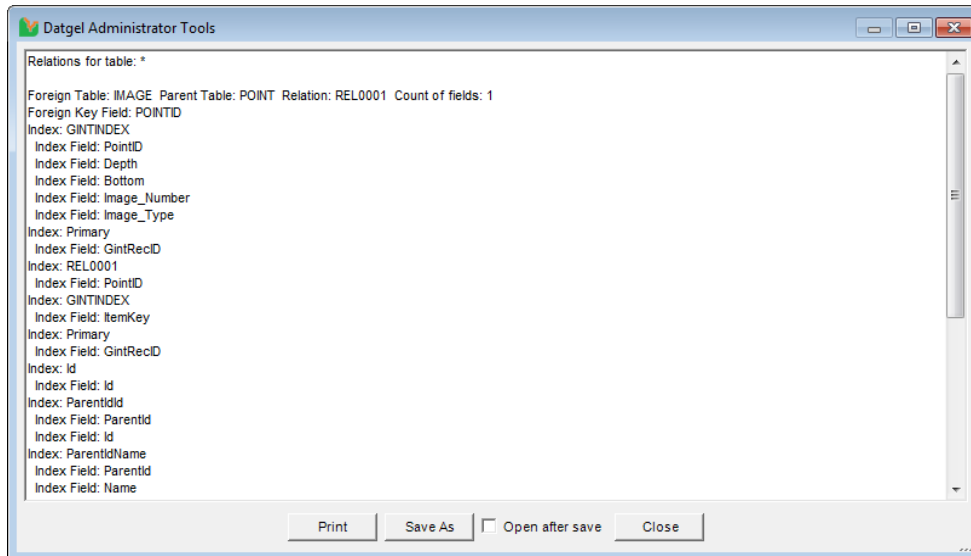
After clicking Find or Set Prop, the code steps through to configuration(s) stored in the xml file, and the following output window should appear, showing the settings from the XML file:



## 5.4 Table Key Fields and Indices

This tool lists the key field and indices information for the tables defined by the filter. The filter only uses the Like Table field. This information is probably only useful to a developer who needs to understand the gINT Access table relationships, primary keys, indices and constraints.

To run this function set the Like Table function, click on the Table Key Fields and Indices button. The report will automatically appear in an output window.



## 6 SQL Tool

SQL Tool can display the results of *SELECT SQL* queries and executes other query types such as *UPDATE*, *INSERT* and *DELETE*.

This Tool is potentially **dangerous**, be very careful when using it and make a backup for your database prior to running an update, delete or insert statement.

An explanation of the SQL language is beyond the scope of this manual. Please refer to the following web sites for information on SQL:

<http://www.w3schools.com/sql/default.asp>

<http://www.intermedia.net/support/sql/sqltut.asp>

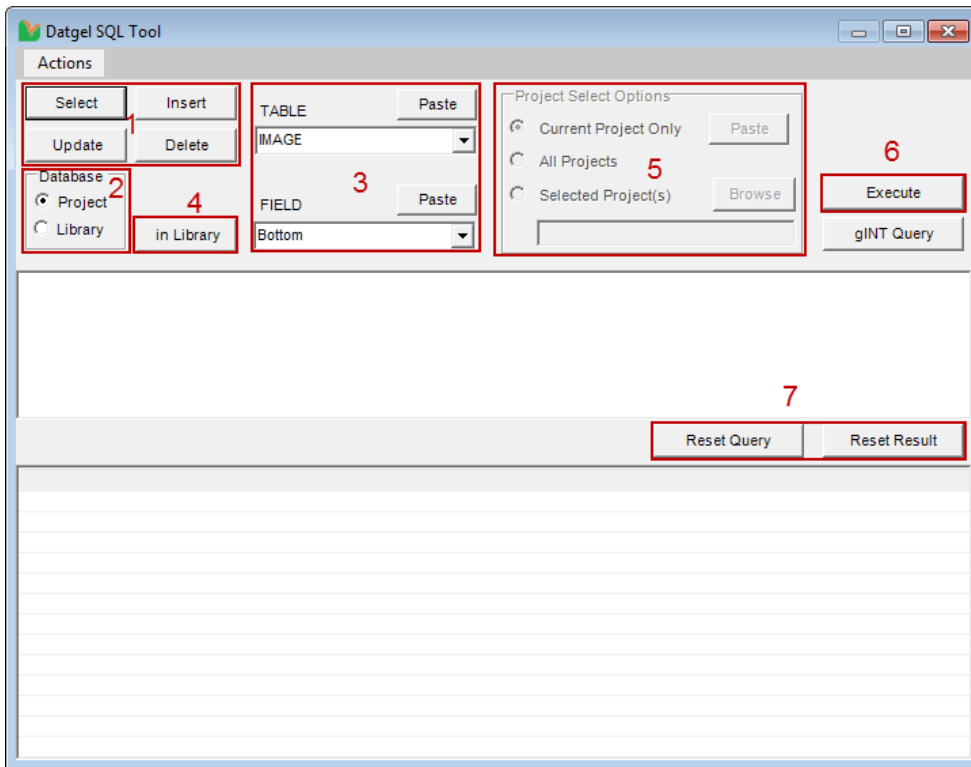
Select **INPUT | Add-Ins > Datgel Administrator Tools > SQL Tool** to launch the Datgel SQL Tool. The procedure is fairly straightforward and referring to the following screen shot:

1. Choose the SQL statement you want to write by clicking on the appropriate button. Note the lowercase syntax e.g. <fieldname> is included as a guide only and should be overwritten or deleted before execution of a command.
2. Choose the database to run the query against – *Project* or *Library*
3. Paste the desired table and field names from the list. Note, by only using table and field names taken from the drop down list, you drastically reduce the chance of getting SQL read errors.
4. Optional. Use the **In Library** button to bring up the full path name for the current library file.
5. Choose between **Current Project Only**, **All Projects**, and **Selected Project(s)**. The **Current Project Only** option checks the current project, **All Projects** checks every project, and **Selected Project(s)** allows you to select multiple projects, by clicking **Browse** and then selecting the projects you wish to use.

**Note:** This option only works for gINT Enterprise databases, and the following error will appear if using an access-based gINT database.

Click on **Execute**.

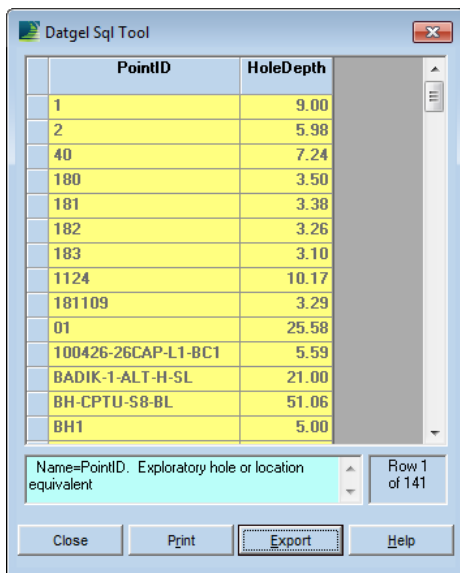
6. Click on **Reset Query** to clear the SQL statement box, and Click on **Reset Result** to clear the results box.



Note that **Execute** displays the results in the white box below the query, whereas **gINT Query** will bring up a gINT window to display the results.

## 6.1 Exporting Data using the SQL Tool

If you want to export the result of an SQL statement to an Excel File, you can use the **gINT Query** option. If the command is properly executed, then this will bring up a window as below.



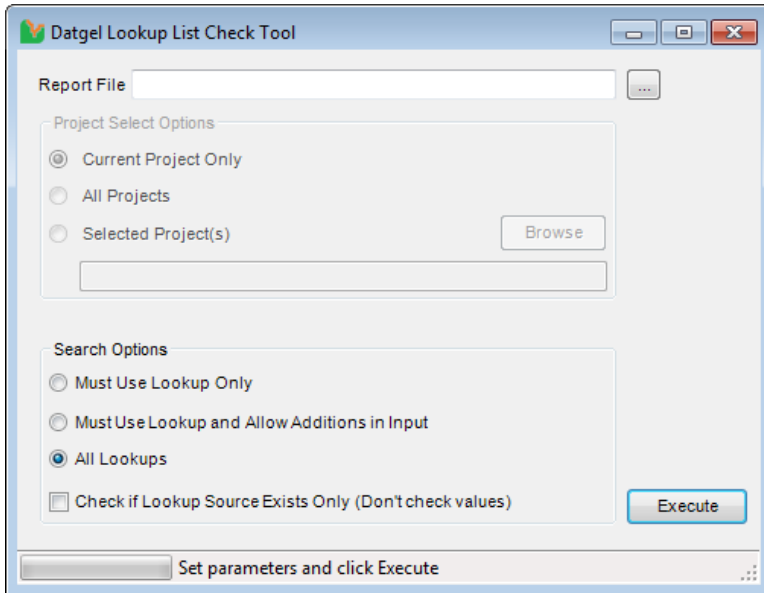
The window will contain the result of your query and give you the option to either send the result to the printer or to Export your result. Choose Export and then in the second window be careful to choose the type as *Excel 2007 (\*.xlsx)*.

**WARNING:** Due to current program limitations, you are currently unable to Append or Overwrite existing files. Always create a new file when using the SQL Tool export option.

# 7 Lookup List Check Tool

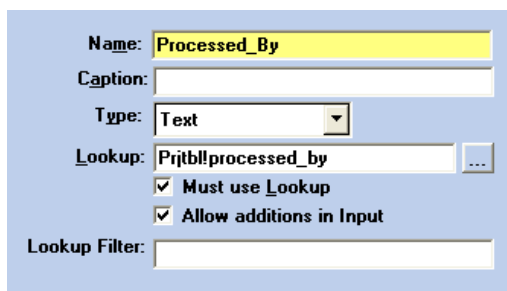
The Datgel Lookup List Check Tool scans the current project's table fields to see if the field requires a lookup, compares the values of the fields with the values in the lookup source, and then writes any problems in a text file. This tool is useful when checking if imported data is compatible or compliant with the lookup lists in the current database/library, and is also useful for checking the integrity and validity of the existing data in the database.

The Tool is available from **INPUT | Add-Ins > Datgel Administrator Tools > Lookup List Check Tool**.



There are three parameters to set before executing the Lookup List Check Tool.

- **Report File** – specifies the full path to the file where you want the report file to be saved to. By default, the file name will be set to <<project file name>> - <<library file name>> <<date time>>.txt but can be changed to anything else as required. Click the ... Box to browse for a file path.
- **Project Select Options (Only for Enterprise Databases)** – The Project Select options allow you to select which projects you wish to check lookups in. The **Current Project Only** option checks the current project, **All Projects** checks every project, and **Selected Project(s)** allows you to select multiple projects, by clicking **Browse** and then selecting the projects you wish to use.
- **Search Options** – the search options determine which lookups the tool will search and check. The options will check the *Must use Lookup* and *Allow additions in Input* check boxes that can be seen in field properties or **DATA DESIGN | Project Database**.



- **Must use Lookup Only** option will only search for and check fields that only have *Must use Lookup* checked in the field properties.

- **Must use Lookup and Allow Additions in Input** option will only search for and check fields that only have *Must use Lookup* and *Allow additions in Input* checked in the field properties.
- **All Lookups** option in the Lookup List Check Tool will search for any field that has a value in the *Lookup* field in the field properties, regardless of any check boxes ticked or not.
- **Check is Lookup Source Exists Only (Don't Check Values)** option is useful when designing a database to help you identify for lookup configurations with broken or missing references.

When these parameters have been set, click **Execute** to begin the search process. A progress bar and status text on the bottom left will show you how much of the process has been completed. Note that with large databases (>50MB), the execution process may take some time to complete (+5 minutes).

When the process has been completed, a report file will be generated at the specified path and opened automatically for viewing. The report header and footer contains general info, such as time commenced and total time taken, project and library files and path, the search option chosen. The body of the report contains a list of all the fields that had an error with finding the lookup value. The error will also specify exactly what the erroneous value is, as well as exactly where, by listing the key fields and values of the record where the value exists. The results are sorted in alphabetical order by table name, then by field name.

