
Database Extraction Tool

Overview

The purpose of the Database Extraction tool is to create a new database that contains only specific, required information. This database is smaller and therefore easier to manage. Performance is better than the original.

The new database is created from data extracted from an existing Govern database. It contains the same schema as the original database but the data, property records, Profiles, and functions it contains are restricted to one or more modules, one or more years, and a saved dataset. A saved dataset is a predefined set of records that is created in Govern. Note that all the dependencies that are required for those records are also copied.

An extracted database can be useful in troubleshooting, testing, or training. For example, you may want to create a demo on a laptop computer and need only the data from the previous assessment year. You may want to test a new tax rate and need all the tax and CAMA tables but only specific property records. You may need to do some troubleshooting and want to send a portion of the database to a team working in a remote office.

The new extracted database is used in a deployment, as any other standalone Govern database. Once it is created, it is independent of the original database. It needs to be updated and maintained separately. It is designed for temporary use. Whenever you run the Database Extraction on it, the existing data are deleted and replaced with the selected data from the source database.

The new extracted database is:

- Reduced in size
- Easily transferred to another computer or to another team
- Contains only the data essential to a specific purpose
- Provides better performance due to the small size

The database extraction tool:

- Reduces the time required for creating a new database
- Reduces downtime over a full backup and restore

The source database operates independently of the extracted database.

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Prerequisites

Access is required for the:

- Source database and deployment
- Destination database

This can be any SQL database, such as an empty database, or a database from any Govern version.

Note: All existing data and tables are removed from the destination database at the beginning of the process.

- Destination deployment, if one exists
- Connection keys for both databases

Recommendations

- Complete a successful database verification on the source database. *For details on running a database verification, refer to the GNA documentation.*
- Back up your source database before beginning.
- If you need to retain any data in the destination database, back up the database. The process clears all data from the destination database.
- Ensure that a saved dataset exists in the source deployment and that it contains all the records required for your destination database.
 - All dependencies are copied along with the records in the saved dataset. For example, the A/R records that are associated with the tax records in the dataset are copied. These include the property control records that are associated with the CAMA records.
 - The only records extracted are those in the saved dataset and the dependencies of those records.

References

- For information about creating a saved dataset, refer to the general Govern OpenForms documentation.
- For information on creating a new deployment for the destination database, see the Deploy EZ documentation.

Extracting a Database

The Database Extraction Tool:

- Deletes all data and database tables in the destination database.
- Copies the Govern database schema from the source to the destination database
- Copies the parameters and settings, for the selected years, from the source database for the following options if they are selected:
 - Billing
All parameter tables starting with AR_, MB_, UB_
 - Land Management,
All parameter tables starting with PM_
 - Mass Appraisal
All parameter tables starting with MA_ and TX
 - Tax
All parameter tables starting with AC_, AR_, BT_, MV_, NA_, PP_, ST_, and TX
 - Fiscal Years
Data from all tables for the range of years, selected in the **From** and **To** drop-down lists.
 - Saved Dataset
All Profiles and functions required for the records in the dataset, as well as all dependencies, are copied.

A full list of all the tables that are copied can be viewed in the following file:

`MSGDatabaseStructMods.xml`

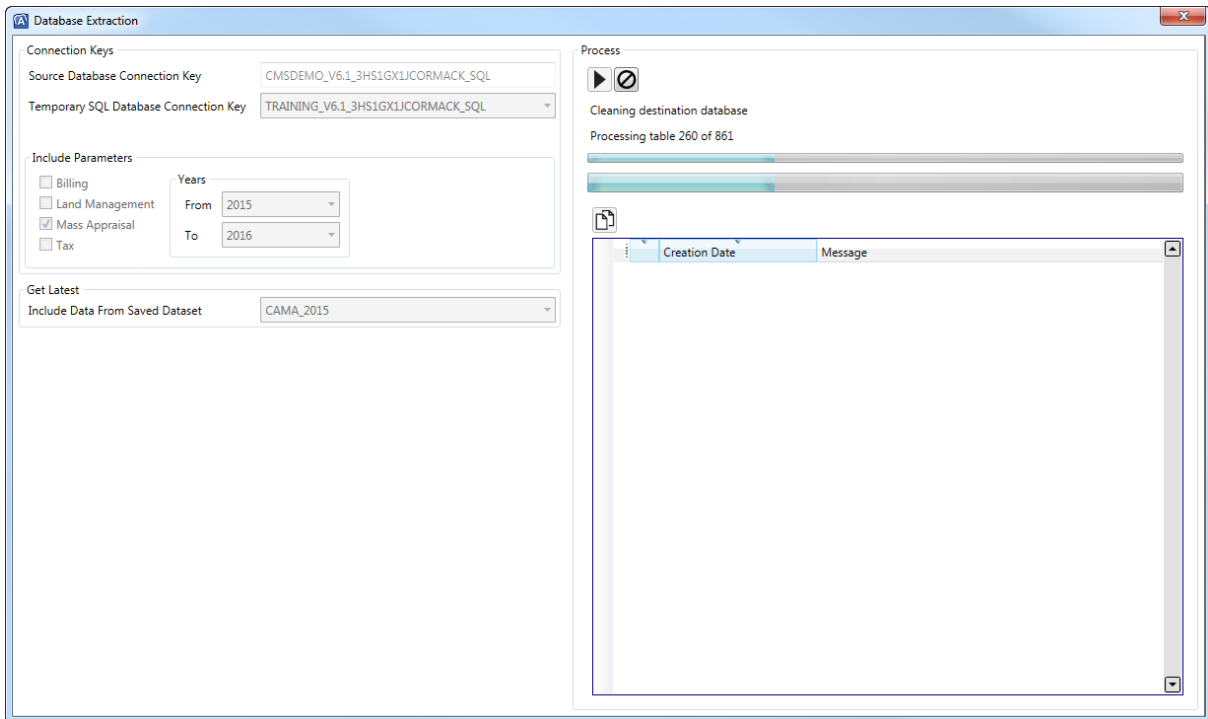
This file is included in the `SystemFiles` folder of your deployment.

To create an extracted database from an existing database:

1. Log on to the server where the source database resides.
2. Launch GNA.
3. Select **Utilities > Database Extraction**.

The Database Extraction tool opens:

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4. Select the connection key to the destination database from the **Temporary SQL Database Connection Key** drop-down list.
5. Select the saved dataset from the **Include Data from Saved Dataset** drop-down list.

Note: You can select only one dataset.

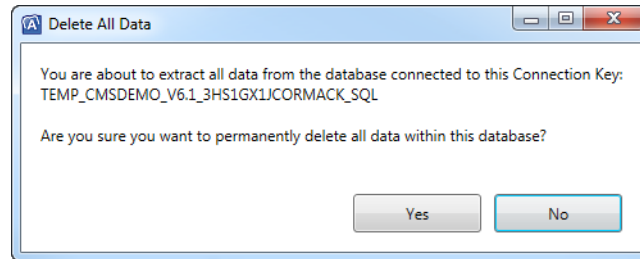
6. Select the modules for the parameters that you want to copy from the source to the destination database.

Note: If you hover your mouse over the option for the parameter, a tooltip listing all the tables appears.

7. Select a range of years for the selected parameters from the **From** and **To Years** drop-down lists.
8. Click the right arrow  to start the process.

A confirmation message appears.

This message warns you that the process deletes all data in the destination database.



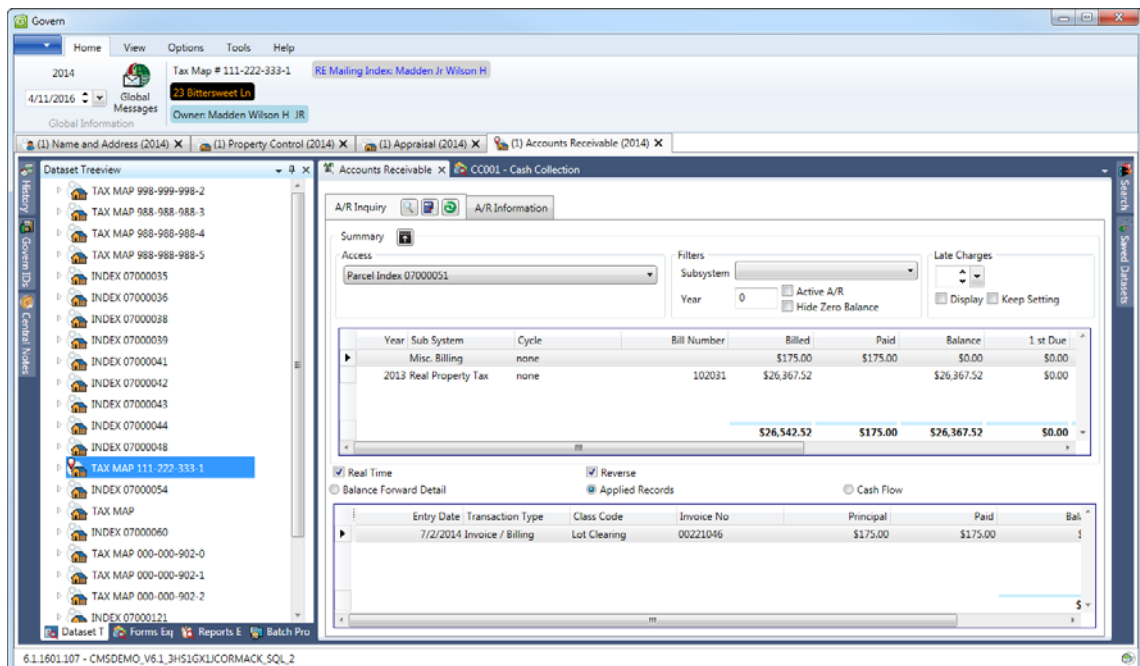
9. Click **Yes** to continue.

Using the New Database

Once the database extraction process is complete, the newly extracted database is ready to use. You can make it available to a remote team via ftp, or open it in any deployment, with the correct version number. You are ready to begin testing, troubleshooting, or training.

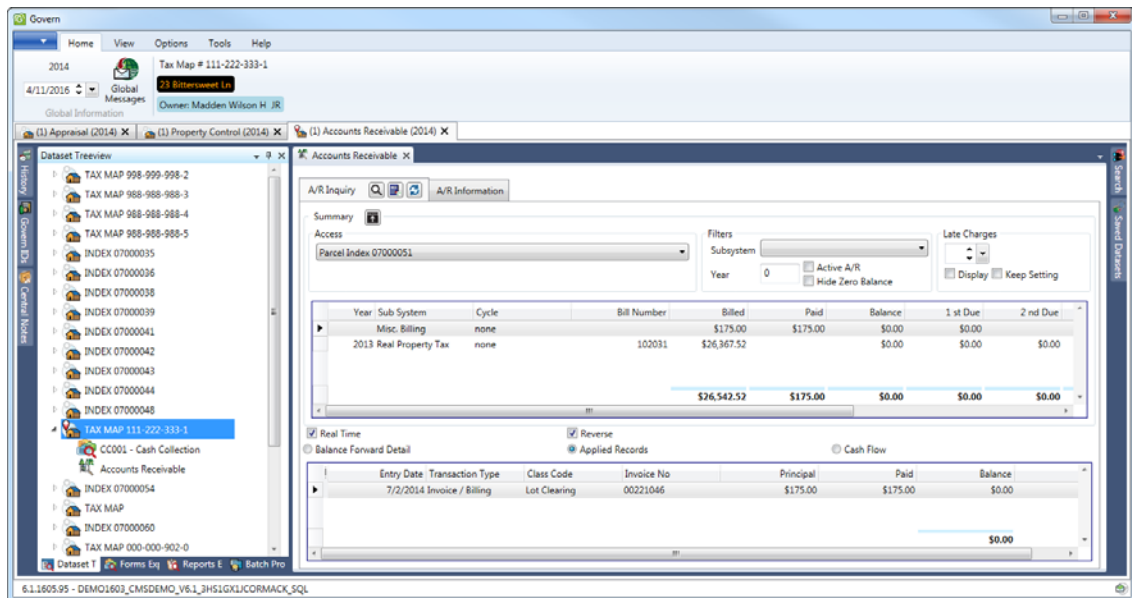
The following screen shots show that the extracted database is the same as the source database.

Source Database



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Extracted Database



Maintaining the Extracted Database

Once the procedure is complete, the extracted database is a standalone database that can be used as any other Govern database. You can run ad database verification, update the database or make modifications as you would to any other database.

There is no synchronization between the source and destination databases, once the process is complete.