

PLINQO for NHibernate

Archive of the CodeSmith Tools documentation for PLINQO for NHibernate, as published on the CodeSmith Confluence site. It is kept for reference and is no longer updated. Current documentation is at www.codesmithtools.com/docs.

9 pages.

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Looking for [PLINQO for LINQ to SQL](#), or [PLINQO for Entity Framework](#)?

PLINQO makes NHibernate so easy, even a caveman can do it.



PLINQO NH is an **enhance and simplify wrapping of NHibernate**.

PLINQO NH is available in C#, and supports SQL Server, Oracle, DB2, MySQL, and more!

PLINQO for NHibernate Documentation

All of our documentation is provided in a friendly wiki format.

Please use the navigation tree on the left to locate the subject that you are interested in.

If you can not find what you are looking for, please feel free to [contact us](#)

Additional Resources

[Official Website](#)

[NHibernate Forge](#)

[Issue Tracker](#)

Downloads

Latest Release

The latest version of the PLINQO for NHibernate is always available on our [GitHub releases page](#).

NOTE: PLINQO for NHibernate requires the latest version of [CodeSmith Generator Professional](#)

Sample Projects

- **C#**
 - Petshop Sample (Complete Website)
 - Tracker Sample (Simple SQL Server Example)
 - Sakila Sample (Simple MySQL Example)

Source Code

If you like to get into the code and see how things work, the NHibernate Templates source is available to view online or checkout using git from [here](#).

Getting Started

Getting started with PLINQO for NHibernate is an easy three step process.

Step 1: Download CodeSmith Generator

Download and install the latest version of CodeSmith Generator.

PLINQO for NHibernate requires the latest version of **CodeSmith Generator**.

If you have not previously registered with CodeSmith Tools or do not currently own a license of CodeSmith Generator, you will be required to **register** on the CodeSmith Tools website to get a trial key before using CodeSmith Generator.

Step 2: Find PLINQO for NHibernate

1. Open **Template Explorer**
2. Navigate to Frameworks\PLINQO-NH in the Generator Samples folder.

Step 3: Run the QuickStart

1. **Double click the quickstart.cst template**
2. Select a database

3. Click generate!

Clicking generate will automatically open Visual Studio so that you can quickly get started using PLINQO for NHibernate!

Once the Visual Studio Solution has opened, build the project to generate PLINQO for NHibernate!

Manual Configuration

Add PLINQO to a pre-existing project.

Step 1: Open a Visual Studio Project

Either create a new project, or open the project that you want to add your NHibernate files to.

Step 2: Add a new CodeSmith Project (CSP) to your project.

1. Open your project in Visual Studio.
2. Right click on your project in Solution Explorer and add a "New Item"
3. Under "Visual Studio C# Items", and add a "CodeSmith Project"

Step 3: Configure your CSP for PLINQO for NHibernate

1. Right click on the CSP and "Manage Outputs"
2. Add Output, select Hbms.cst, and fill in the 2 required properties
3. Add Output, select Entities.cst, and fill in the 2 required properties
4. Add Output, select Queries.cst, and fill in the 1 required property

Step 4: Add a connection string to your App or Web config

1. Name the connection string "nhiberante" or the name of your database

Step 5: Generate Outputs

1. Right click on your CSP and Generate Outputs.
2. Compile.
3. Enjoy!

Key Features

PLINQO can generate your HBM files, entity classes, and all NHibernate configuration in seconds. It then allows you to safely regenerate that code at anytime, thus synchronizing your mappings with the database while still intelligently preserving custom changes.

PLINQO offers these features over standard NHibernate:

- Data Layer Generation
 - Generate your HBM files from your database.
 - Supports Tables, Views, and Stored Procedures.
 - Supports associations and composite keys.
 - Generate your Entities from your HBM files.
- Safe Regeneration
 - Safely regenerate your data layer against your database.
 - Intelligently seeks out and merges data changes with code changes.
 - Ability to filter what gets updated from the database.
- Intuitive File Structure
 - Each generated class is separated into editable and generated files.
 - Complex types are generated into an organized folder structure.
- Query Logic
 - Generates chainable query extension methods that simplify query logic.
 - Query extensions support advanced comparison and containment operators.

Roadmap

The Complete PLINQO Feature Set

- A QuickStart
- Enumeration Generation
- Rules Engine
- Auditing

Templates

Templates in your CSP must be included and generated in the following order:

1. Hbms.cst
2. Entities.cst
3. Queries.cst (Optional)

Hbms.cst

You must fill in the required attributes, but by doing so they will be used to automatically populate the other attributes with default values.

1. Required

- AssemblyName - The name of the Assembly that will contain the business entities.
- SourceDatabase - The source database to generate from.

2. Database

- CleanExpression - List of regular expressions to clean table, view and column names.
- IgnoreList - List of regular expressions to ignore tables, views and commands when generating mapping.
- IncludeList - List of regular expressions to include tables and views when generating mapping.

3. Directories

- MapsDirectory - The output directory for mapping files.

4. Naming

- EntityNamespace - The namespace for business entities.

Entities.cst

You must fill in the required attributes, but by doing so they will be used to automatically populate the other attributes with default values.

1. Required

- `AssemblyName` - The name of the Assembly that will contain the business entities.
- `SourceDatabase` - The source database to generate from.

2. Directories

- `BaseDirectory` - The output directory for base classes.
- `EntitiesDirectory` - The output directory for entity classes.
- `MapsDirectory` - Folder containing HBM files.

3. Naming

- `BaseNamespace` - The namespace for base classes.
- `DataContextName` - Name of the generated DataContext.
- `EntityBaseClass` - The base class for PLINQO entities.
- `GenerateDataContext` - "True to generate the DataContext (queries require the DataContext).

Queries.cst

You must fill in the required attributes, but by doing so they will be used to automatically populate the other attributes with default values.

1. Required

- SourceDatabase - The source database to generate from.

2. Directories

- QueriesDirectory - The output directory for query extensions.
- MapsDirectory - Folder containing HBM files.

3. Naming

- BaseNamespace - The namespace for base classes.
- DataContextName - The class name of the Data Context.
- QueryNamespace - The namespace for query extensions.

4. Queries

- MethodKeySuffix - The property name of the primary key query method names.
- MethodPrefix - The prefix of query method names.
- UniqueMethodPrefix - The prefix of query methods with unique results.