# IDisposable Best Practices for C# Developers

**Module 2 Setup Instructions**

In Module 2 we demonstrate how the Garbage Collector works and how to implement IDisposable correctly to minimize the workload on the GC.

## GetDate.ConsoleApp

This is the very simple demo solution used in the module. It’s a console app which connects to SQL Server and writes out the current date from SQL.

### Pre-requisites

The demo solution is delivered in Visual Studio 2013 and uses a SQL Server database.

The project expects to find a local SQL Server database with a default, unnamed instance. If your SQL Server setup is different, you will need to change the connection string in *app.config*.

### Running the Solution

Run the console app and hit **g** to connect to SQL and output the current date.

In the before solution, we use a singleton instance of the **DatabaseState** class to make the database calls.

In the after solution we use a new instance of the **UnmanagedDatabaseState** child class for every call, and we don’t dispose the objects so the app will crash with an out-of-memory exception.