

VS 2019 SQLite 開發環境安裝

讓你的 Entity Framework 可以使用SQLite

Created by Andy.flower 2021/9/30

目錄

- EF6 workflow with SQLite DDEX provider 說明網頁
 1. Install SQLite Toolbox
 2. Install SQLite in GAC
 3. Install SQLite EF provider in project
- Install SQLite Expert
- 建立 DbFirst 的 EF
- app.Config 設定
- RDLC Report Design
- AutoMapper
- System.Linq.Dynamic

EF6 workflow with SQLite DDEX provider

安裝共有四個步驟. 詳情請參考[官網說明](#)

EF6 workflow with SQLite DDEX provider

Erik Ejlskov Jensen edited this page on 16 Jun 2020 · 44 revisions

The System.Data.SQLite DDEX provider does not support Visual Studio 2017 and 2019. This post describes how to work with SQLite and Entity Framework 6 in Visual Studio 2017/2019, using the "SQLite Toolbox" DDEX provider for EF6. Notice that this provider **only** supports the EF 6 Tools, and not other Data Source scenarios, for example Typed DataSets. This requires Visual Studio 2017 15.8 or later.

- Install Toolbox
- Install SQLite in GAC
- Install SQLite EF provider in project
- Run EDM Wizard


Install SQLite Toolbox

下載 VS ToolBox [按我](#)

Open VSIX Gallery

Search...

SQLite and SQL Server Compact Toolbox



SQLite / SQL Server Compact Toolbox extension for Visual Studio. This extension adds several features to help your embedded database development efforts: Scripting of tables and data, import from SQL Server and CSV files and much, much more.

▼ Download

Author

[ErikEJ](#)

Version

4.8.738

Updated

7 days ago

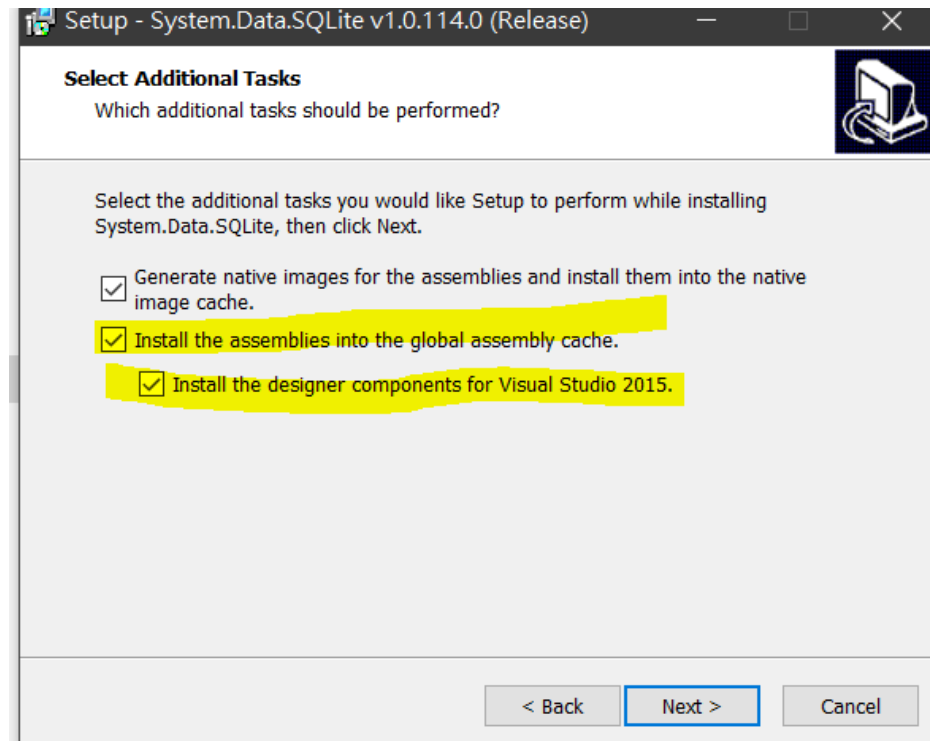
[★ Website](#)

[🔗 Source code](#)

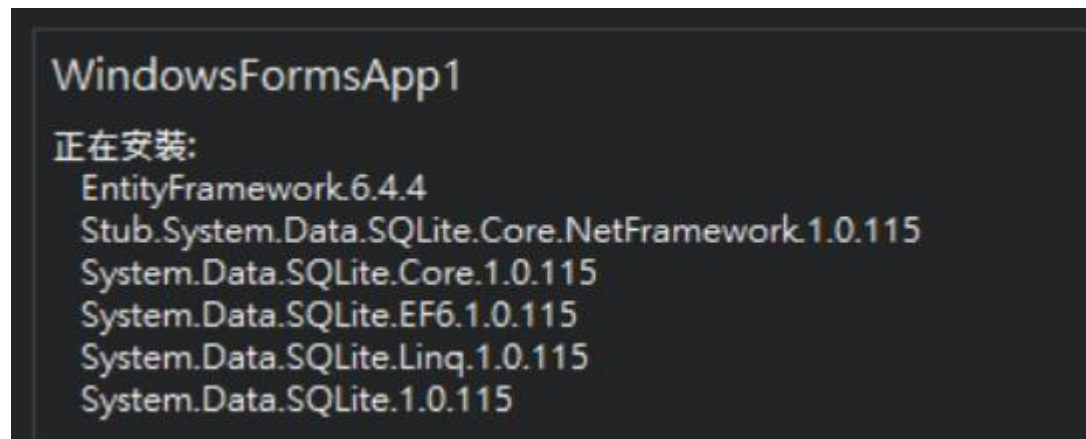
[✓ Issue tracker](#)

Install SQLite GAC

- 安裝 EF6 workflow with SQLite DDEX provider
- 下載網址(要用x86). [按我](#)
- 重要.

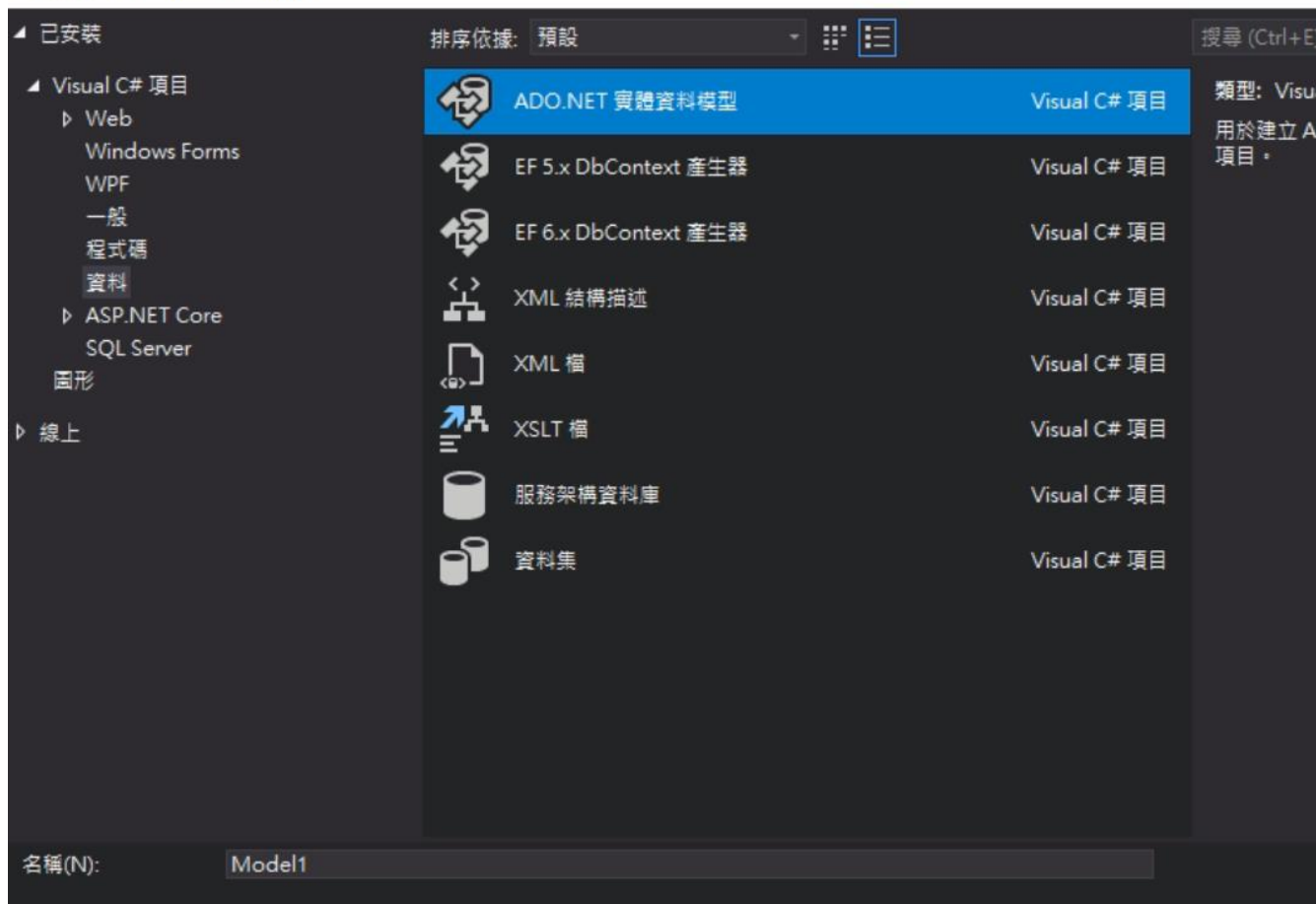


Install SQLite EF provider in project



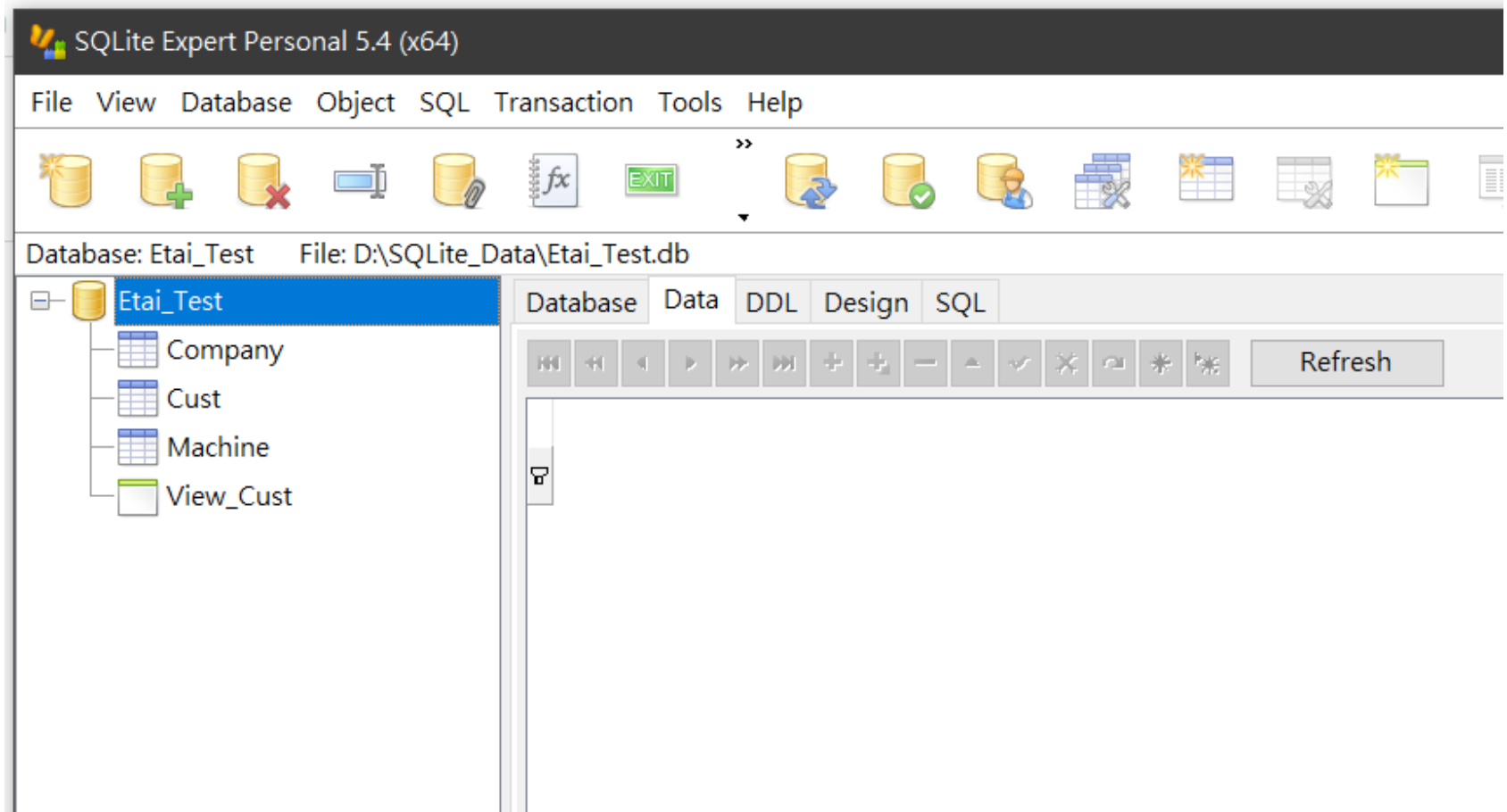
建立 DbFirst 的 EF

新增項目 - WindowsFormsApp1



Install SQLite Expert

- SQLite 的 IDE 使用 SQLite Expert. [下載網址](#)
- 作業畫面



建立 DbFirst 的 EF (1/3)



建立 DbFirst 的 EF (2/3)

實體資料模型精靈



選擇您的資料連接

您的應用程式應使用哪個資料連接來連接到資料庫?(W)

新增連接(C)...

選擇資料來源



資料來源(S):

Microsoft SQL Server
Microsoft SQL Server 資料庫檔案
SQLite Provider (Simple for EF6 by ErikEJ)
<其他>

說明

Use this to connect the EF 6 Tools to a SQLite database file. A Simple Provider supplied by ErikEJ. Does not support Data Source Configuration Wizard, only EF6

資料提供者(P):

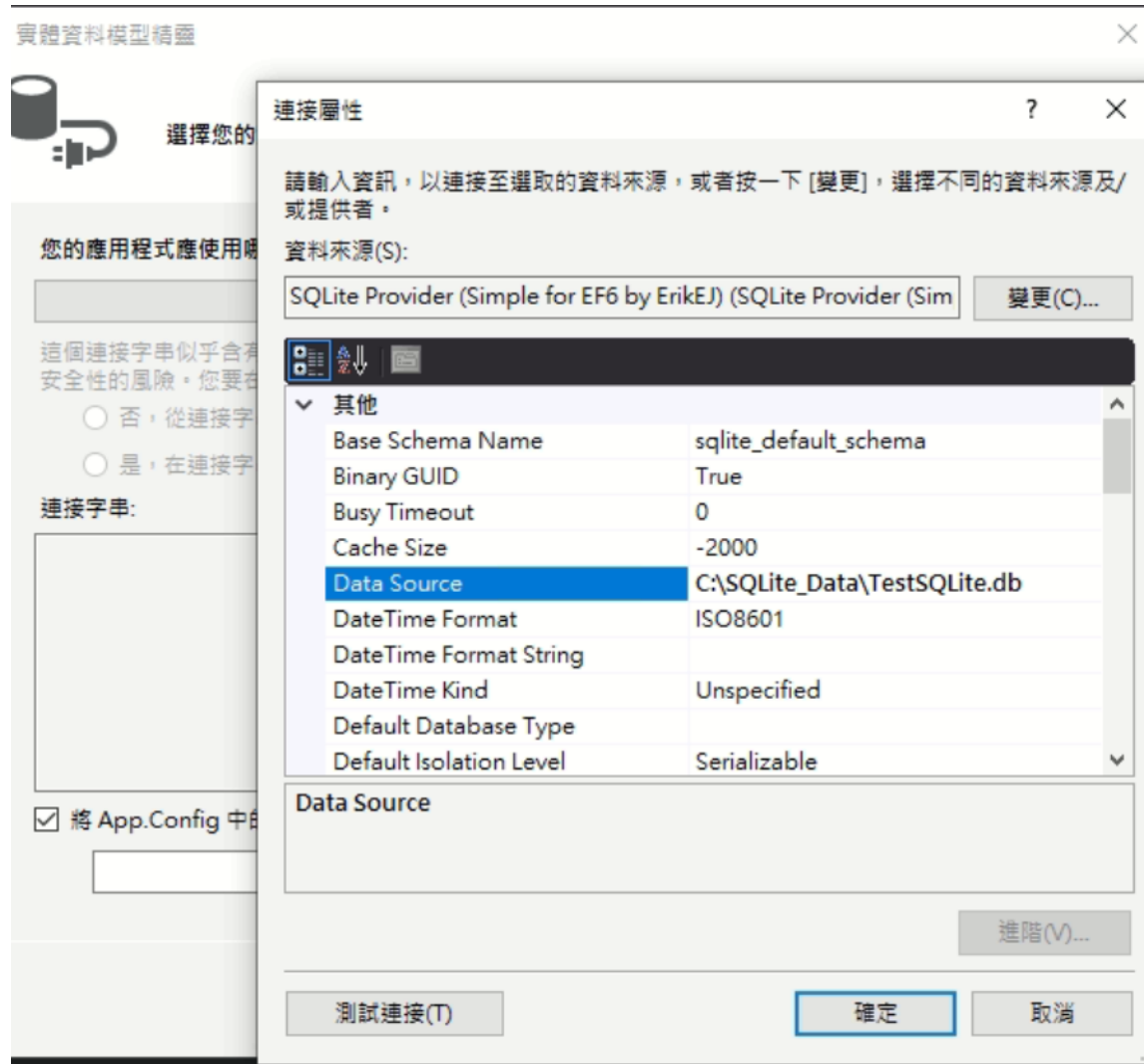
SQLite Provider (Simple for EF6 by ErikEJ)

☒ 永遠使用這個選項(U)

繼續

取消

建立 DbFirst 的 EF (3/3)

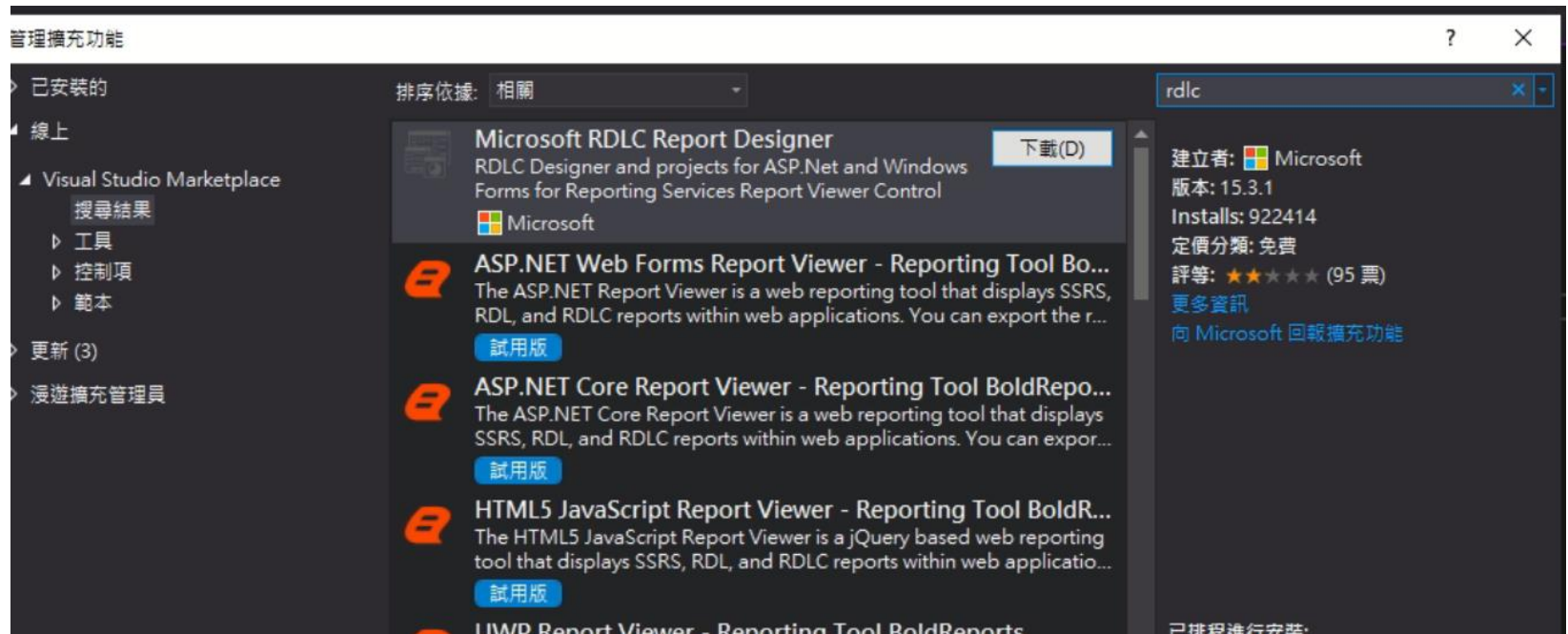


修改 app.config

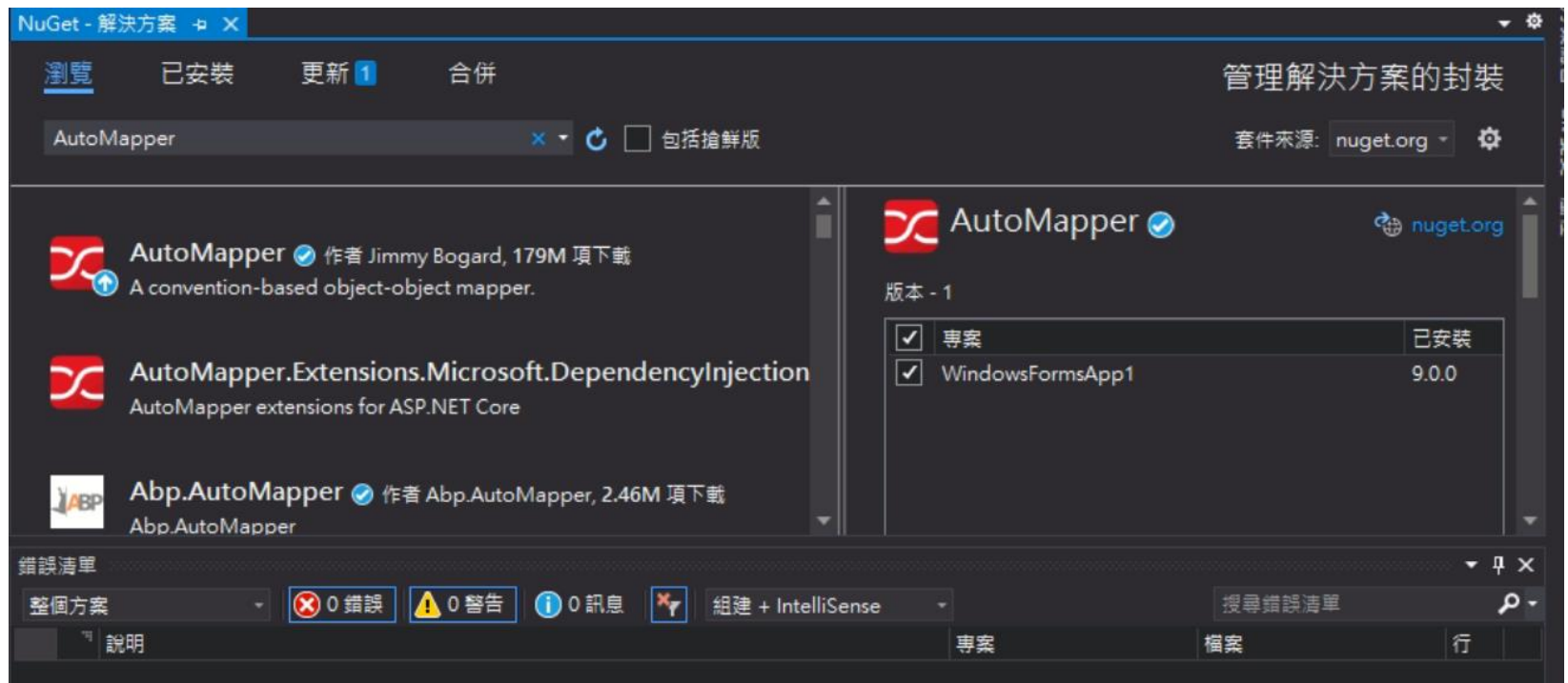
```
<entityFramework>
  <defaultConnectionFactory type="System.Data.Entity.Infrastructure.LocalDbConnectionFactory, EntityFramework">
    <parameters>
      <parameter value="mssqllocaldb" />
    </parameters>
  </defaultConnectionFactory>
  <providers>
    <provider invariantName="System.Data.SqlClient"
      type="System.Data.Entity.SqlServer.SqlProviderServices, EntityFramework.SqlServer" />
    <provider invariantName="System.Data.SQLite"
      type="System.Data.SQLite.EF6.SQLiteProviderServices, System.Data.SQLite.EF6" />
    <provider invariantName="System.Data.SQLite.EF6"
      type="System.Data.SQLite.EF6.SQLiteProviderServices, System.Data.SQLite.EF6" />
  </providers>
</entityFramework>

<system.data>
  <DbProviderFactories>
    <add name="SQLite Data Provider" invariant="System.Data.SQLite"
      description=".NET Framework Data Provider for SQLite"
      type="System.Data.SQLite.SQLiteFactory, System.Data.SQLite" />
  </DbProviderFactories>
</system.data>
```

RDLC Report Designer



AutoMapper



System.Linq.Dynamic

The screenshot shows the NuGet Package Manager window with the search results for 'System.Linq.Dynamic'. The interface is in Chinese. The search bar contains 'system.linq.dynamic'. The results list shows several packages, with 'System.Linq.Dynamic' selected. The details pane on the right shows the package information, including the version '0' and the list of installed packages: '專案' (Project) and 'WindowsFormsApp1'. The '已安裝' (Installed) button is visible.

NuGet - 解決方案

瀏覽 已安裝 更新 1 合併

system.linq.dynamic 包括搶鮮版

管理解決方案的封裝

套件來源: nuget.org

System.Linq.Dynamic 作者 Microsoft, 10.2M 項下載
This package is deprecated (no longer maintained)

System.Linq.Dynamic.Core 作者 ZZZ Projects, Stef Heyenrath, Microsoft
This is a .NETStandard / .NET Core port of the the Microsoft assembly for the .Net 4.0 Dynamic language functionality.

Microsoft.EntityFrameworkCore.DynamicLinq 作者 ZZZ Projects
Dynamic Linq extensions for Microsoft.EntityFrameworkCore which adds Async support

System.Linq.Dynamic.3.5 作者 Microsoft, 25.8K 項下載
System.Linq.Dynamic for .NET 3.5 compiled .dll packaged for NuGet

EntityFramework.DynamicLinq 作者 ZZZ Projects, Stef Heyenrath, Microsoft
Dynamic Linq extensions for EntityFramework which adds Async support

System.Linq.Dynamic nuget.org

版本 - 0

專案	已安裝
WindowsFormsApp1	

已安裝: 未安裝 解除安裝

版本: 最新穩定版 1.0.8 安裝

錯誤清單 輸出

Newtonsoft.Json

The screenshot shows the NuGet Package Manager window in a dark theme. The title bar reads "NuGet - 解決方案". The top navigation bar includes "瀏覽" (Browse), "已安裝" (Installed), "更新 1" (Updates 1), and "合併" (Merge). The right side of the top bar says "管理解決方案的封裝" (Manage Package Sources) and "套件來源: nuget.org" (Package Source: nuget.org).

The search bar contains the text "搜尋 (Ctrl+L)". Below the search bar, a list of packages is shown. The first package, "Newtonsoft.Json", is highlighted in blue. It has a rocket icon, a checkmark, and the text "作者 James Newton-King, 1.24G 13.0.1". Below the package name, it says "Json.NET is a popular high-performance JSON framework for .NET".

Below the highlighted package, there are four other packages listed:

- Microsoft.Extensions.DependencyInjection** (version 5.0.2): Default implementation of dependency injection for Microsoft.Extensions.DependencyInjection.
- Microsoft.Extensions.Logging** (version 5.0.0): Logging infrastructure default implementation for Microsoft.Extensions.Logging.
- Serilog** (version 2.10.0): Simple .NET logging with fully-structured events.
- Microsoft.EntityFrameworkCore** (version 5.0.9): Entity Framework Core is a modern object-database mapper for .NET. It supports LINQ queries, change tracking, update...

The right pane shows the details for "Newtonsoft.Json". It includes the package icon, name, and version "13.0.1". Below this, there is a table showing the installed packages:

專案	已安裝
WindowsFormsApp1	13.0.1

At the bottom of the right pane, there are two buttons: "解除安裝" (Uninstall) and "安裝" (Install). The "已安裝" (Installed) status is shown as "13.0.1". The "版本" (Version) dropdown is set to "最新穩定版 13.0.1".