(T26)討論LinqPad輔助軟體  
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(T26)討論LinqPad輔助軟體  
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0. Summary

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1. Download Linqpad

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2. LinqPad Introduction

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3. LinqPad : Linq to Sql

3.1. TSQL

3.2. Set up SQL Authentication

3.3. Set up Linqpad  
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0. Summary

\* 我的Linq課程最後一堂課Linqpad，LinqPad 的 免費版 功能其實蠻陽春的，

但是因為我平常都在用Resharper，所以其實LinqPad 我真的還蠻少用的，

因此免費版已經算是夠我用的。這個video我使用了免費版來介紹Linqpad功能，

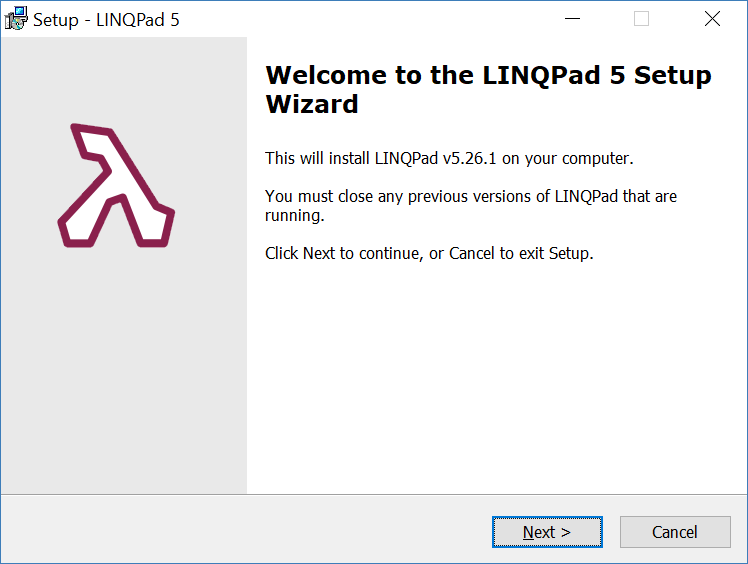
如果你覺得 auto complete 功能對你很重要，就花個USD45 可以買單機版。

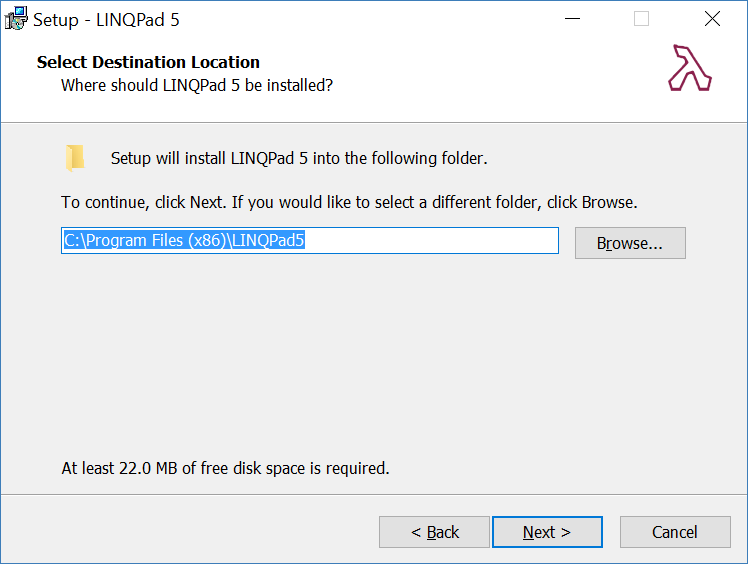
該tutorial 介紹了 Sql like Linq Query 轉成 Lambda expression linq query，

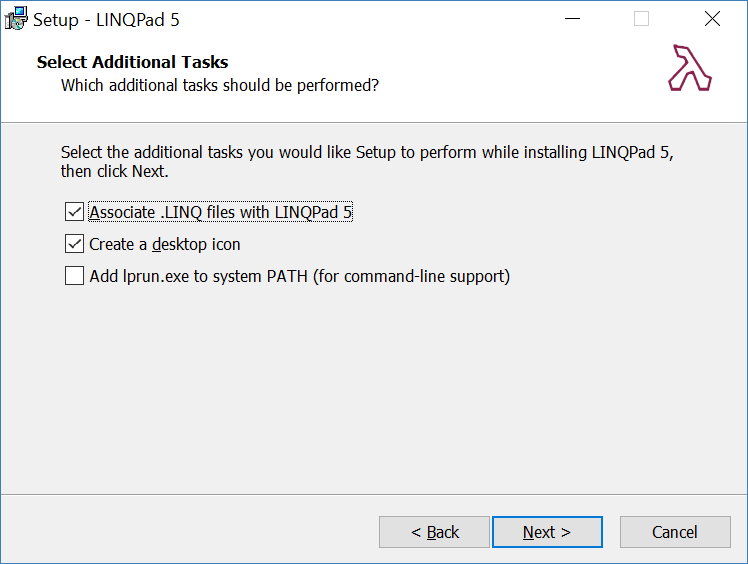
也介紹了  Linq轉成sql (其實我通常都是用sql profiler來看更多資訊)

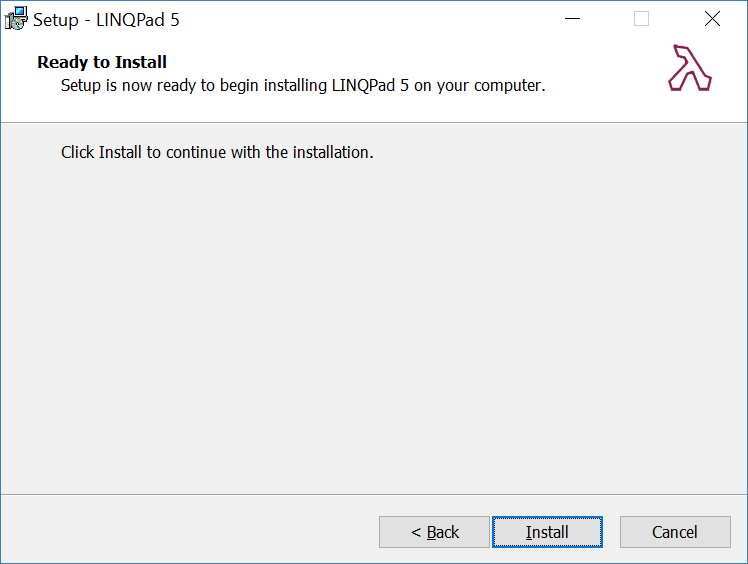
1. Download Linqpad

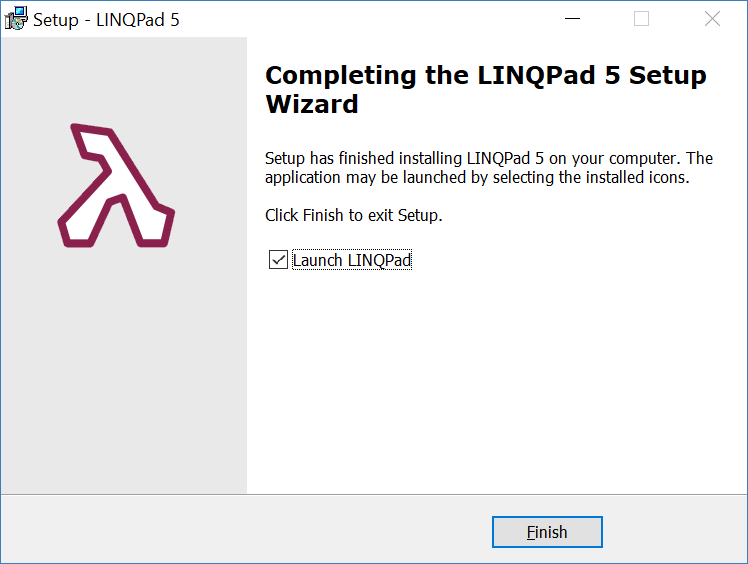
<https://www.linqpad.net/>











2. LinqPad Introduction

int[] intArr = {1,2,3,4,5,6,7,8,9,10};

var linqQuery = from n in intArr

       where n%2 != 0

       orderby n descending

       select n;

//Dump() in linqpad is like a writeline() in C#

linqQuery.Dump();

Graphical user interface, text, application

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//.AsQueryable() will allow you to see lambda expression query

int[] intArr = {1,2,3,4,5,6,7,8,9,10};

var linqQuery = from n in intArr.AsQueryable()

       where n%2 != 0

       orderby n descending

       select n;

linqQuery.Dump();

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//.AsQueryable() will allow you to see lambda expression query

var intArr = new int[]{1,2,3,4,5,6,7,8,9,10}.AsQueryable();

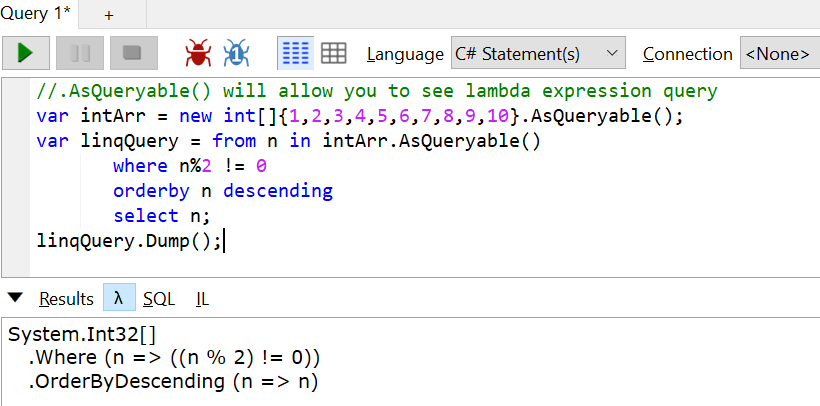
var linqQuery = from n in intArr.AsQueryable()

       where n%2 != 0

       orderby n descending

       select n;

linqQuery.Dump();



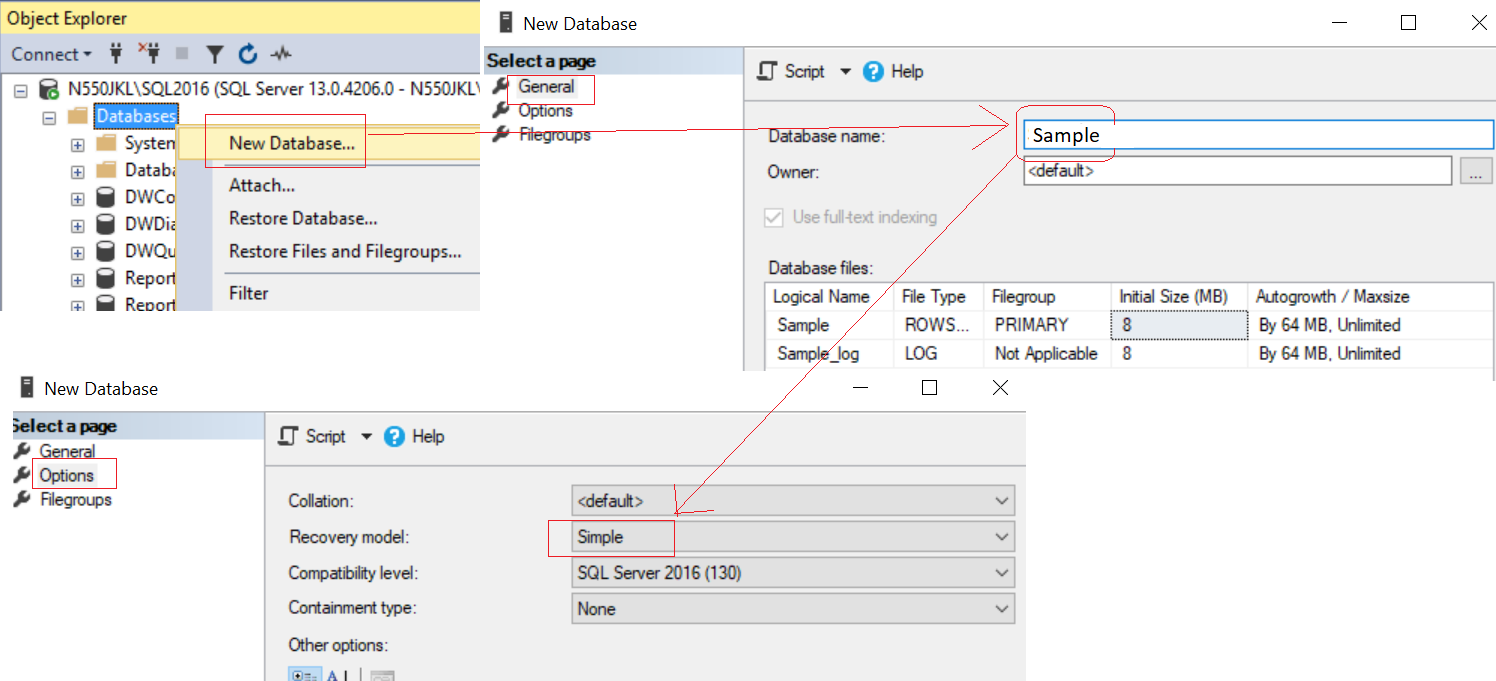
3. LinqPad : Linq to Sql

3.1. TSQL

Database --> Right Click --> New Database -->

Database Name : Sample

Options --> Recovery Model : Simple



--Create a Sample DataBase and Run the following TSQL

/\*

1.

One Team can have many Gamers

One Gamer can have One Team.

This is One to Many Relationship.

2.

Team Id==4 has no Gamer.

Gamer Id==7 has no Team.

\*/

--1 ----------------------------------------------------------

--Drop Table if it exists.

--IF OBJECT\_ID('Gamer') IS NOT NULL

IF ( EXISTS ( SELECT    \*

              FROM      INFORMATION\_SCHEMA.TABLES

              WHERE     TABLE\_NAME = 'Gamer' ) )

    BEGIN

        TRUNCATE TABLE Gamer;

        DROP TABLE Gamer;

    END;

GO -- Run the previous command and begins new batch

--Drop Table if it exists.

--IF OBJECT\_ID('Team') IS NOT NULL

IF ( EXISTS ( SELECT    \*

              FROM      INFORMATION\_SCHEMA.TABLES

              WHERE     TABLE\_NAME = 'Team' ) )

    BEGIN

        TRUNCATE TABLE Team;

        DROP TABLE Team;

    END;

GO -- Run the previous command and begins new batch

--Create Tables

CREATE TABLE Team

    (

      Id INT PRIMARY KEY

             IDENTITY ,

      Name NVARCHAR(100) ,

      Type NVARCHAR(100)

    );

GO -- Run the previous command and begins new batch

CREATE TABLE Gamer

    (

      Id INT PRIMARY KEY

             IDENTITY ,

      Name NVARCHAR(50) ,

      Gender NVARCHAR(50) ,

      Score INT ,

      Type NVARCHAR(50) ,

      TeamId INT FOREIGN KEY REFERENCES Team ( Id )

    );

GO -- Run the previous command and begins new batch

--2 ----------------------------------------------------------

--Insert Data

INSERT  INTO Team

VALUES  ( 'Team1\_Guardian', 'Guardian' );

INSERT  INTO Team

VALUES  ( 'Team2\_Assassinator', 'Assassinator' );

INSERT  INTO Team

VALUES  ( 'Team3\_Soldier', 'Soldier' );

INSERT  INTO Team

VALUES  ( 'Team4\_Civilian', 'Civilian' );

GO -- Run the previous command and begins new batch

INSERT  INTO Gamer

VALUES  ( 'Name1 ABC', 'Male', 5000, 'Water', 1 );

INSERT  INTO Gamer

VALUES  ( 'Name2 ABCDE', 'Female', 4500, 'Fire', 3 );

INSERT  INTO Gamer

VALUES  ( 'Name3 EFGH', 'Male', 6500, 'Fire', 2 );

INSERT  INTO Gamer

VALUES  ( 'Name4 HIJKLMN', 'Female', 45000, 'Water', 2 );

INSERT  INTO Gamer

VALUES  ( 'Name5 NOP', 'Male', 3000, 'Wood', 1 );

INSERT  INTO Gamer

VALUES  ( 'Name6 PQRSTUVW', 'Male', 4000, 'Earth', 3 );

INSERT  INTO Gamer

VALUES  ( 'Name7 XYZ', 'Male', 4500, 'Metal', NULL );

GO -- Run the previous command and begins new batch

3.2. Set up SQL Authentication

In SQL server

Object Explorer --> Security --> Logins --> New Logins

-->

General Tab

Login Name :

**Tester**

Password:

**1234**

Default Database:

**Sample**

-->

Server Roles Tab

Select

**sysadmin**

-->

User Mapping Tab

Select **Sample**

Select every Roles.

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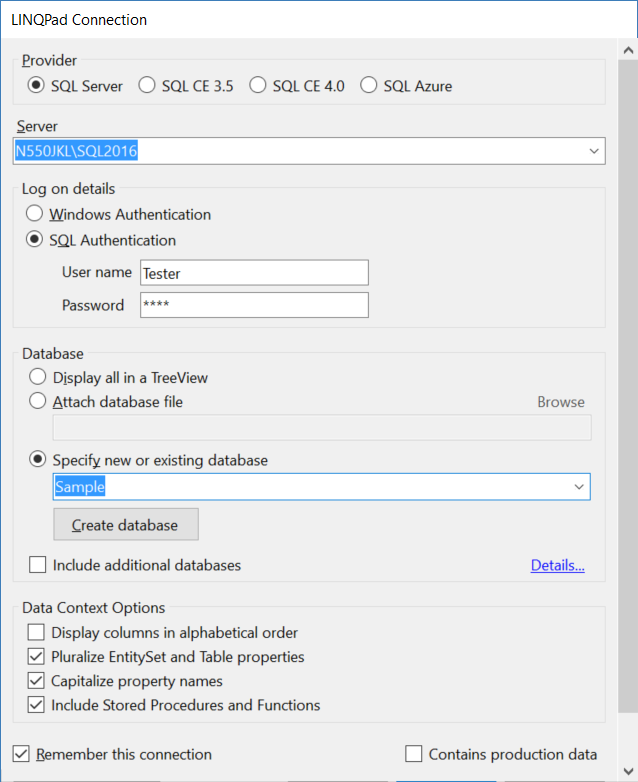
3.3. Set up Linqpad

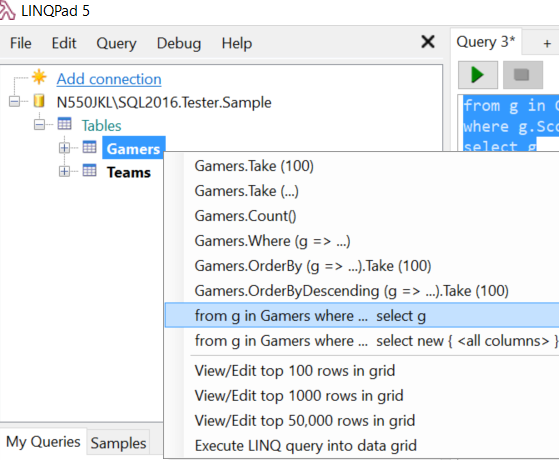
Graphical user interface, application

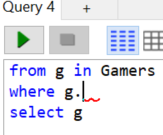
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Table

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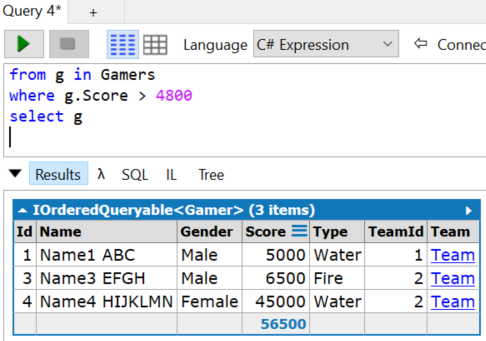




from g in Gamers

where g.Score > 4800

select g



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Graphical user interface, text, application, email

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