Using EF to Interact with Your Data

Julie Lerman

thedatafarm.com | @julielerman

pluralsight

In This Module

- Inserting simple objects
- Querying simple objects
- Updating simple objects
- Getting data with Find and SqlQuery
- Deleting objects
- Working with Graphs of Related Data
- Projection Queries

Express Queries Using:

LINQ Methods

```
context.Ninjas
.Where(n=>n.Name==“Raphael”)
.ToList()
```

LINQ Query Syntax

```
(FROM ninja IN context.Ninjas
 WHERE ninja.Name==“Raphael”)
.ToList()
```

pluralsight

Updating
Simple Objects
With
Entity Framework

pluralsight

Deleting Simple Objects With Entity Framework

pluralsight

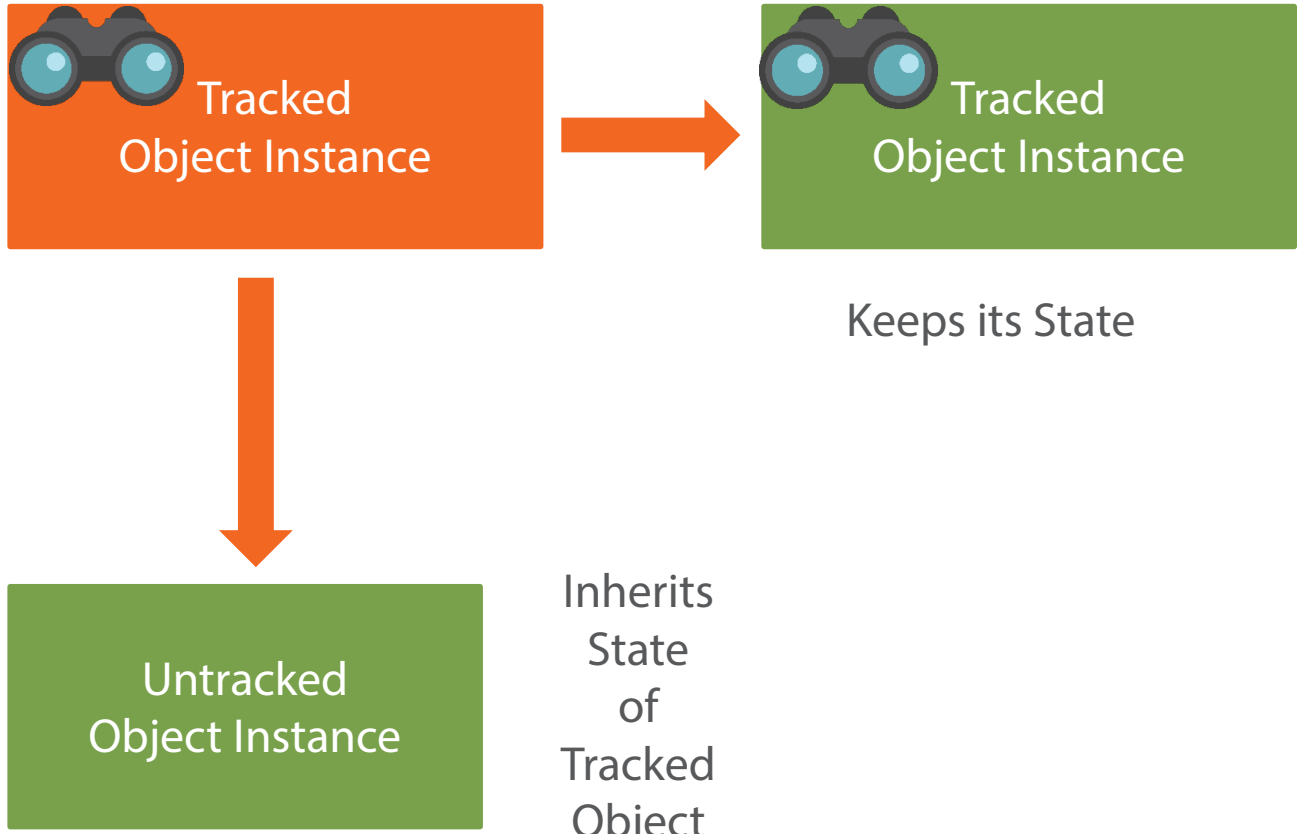
Data Retrieval with Find & SqlQuery

pluralsight

Inserting Related Data

pluralsight

Context

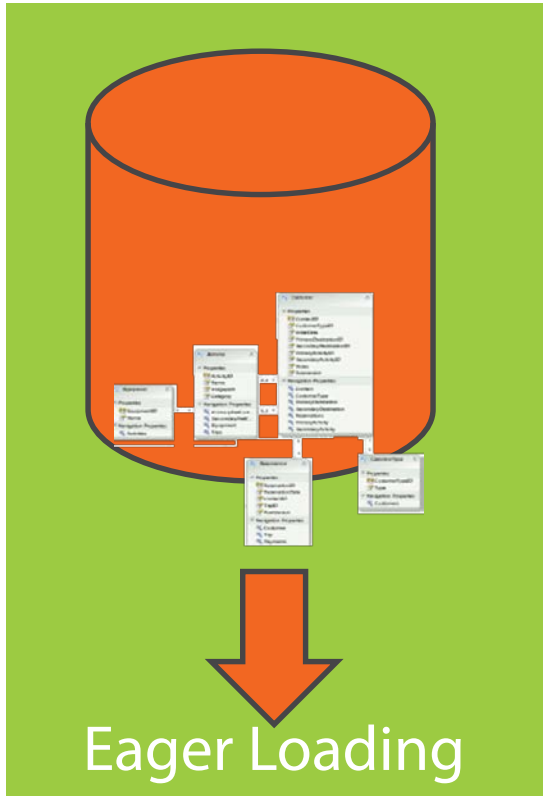


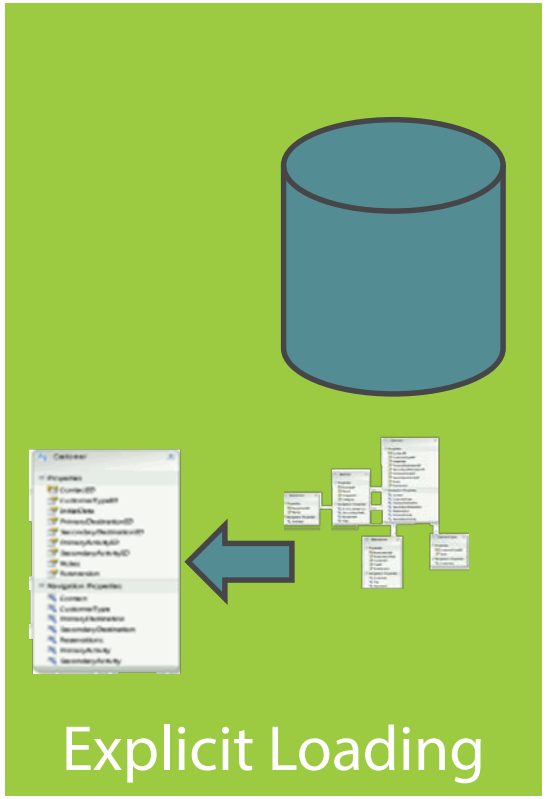
pluralsight

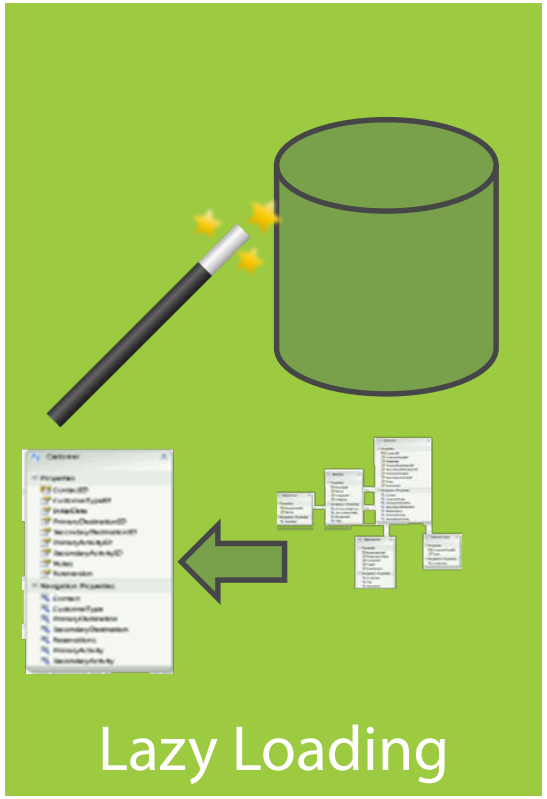
Retrieving Graph Data

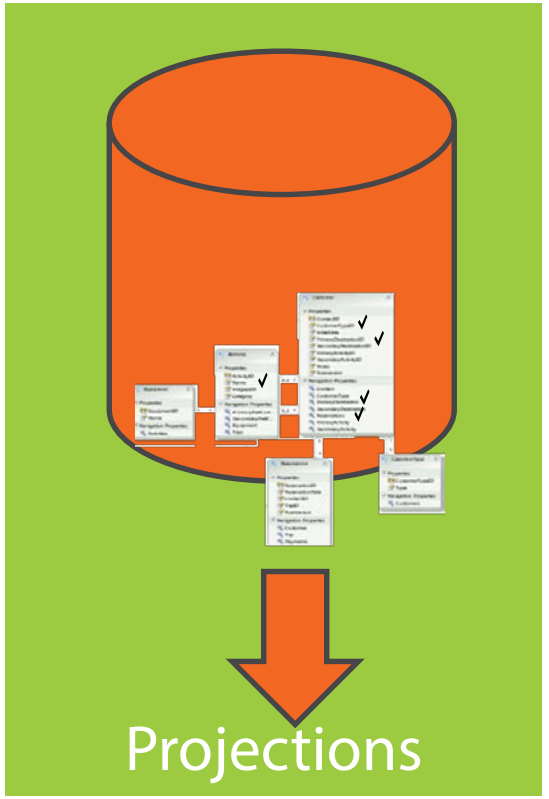
pluralsight

Loading Related Data







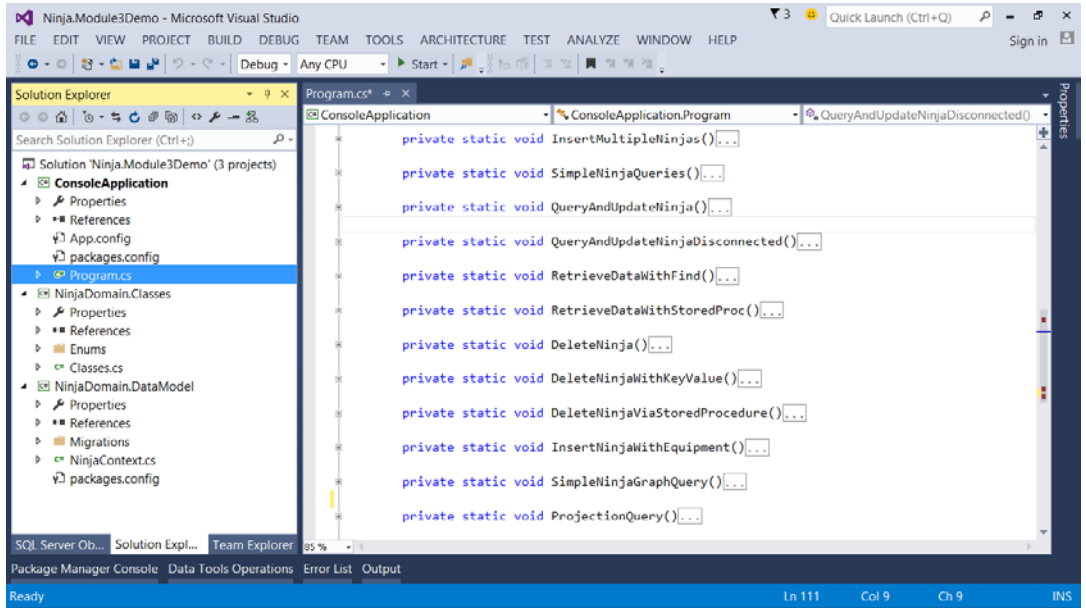


pluralsight

Projection Queries

pluralsight

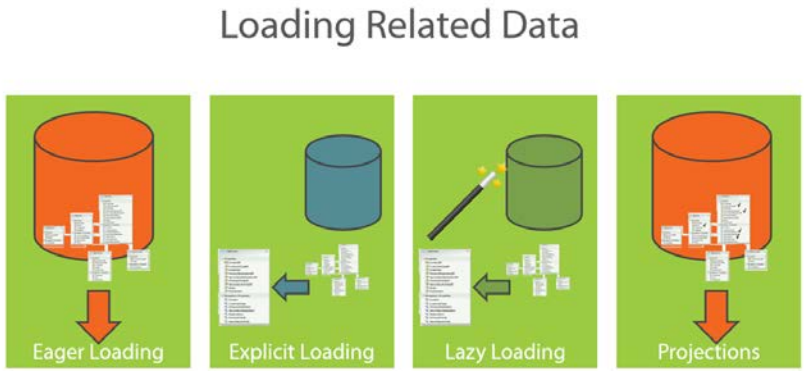
Summary




```
private static void SimpleNinjaQueries()
{
    using (var context = new NinjaContext())
    {
        context.Database.Log = Console.WriteLine;
        var ninjas = context.Ninjas
            .Where(n => n.DateOfBirth >= new DateTime(1984, 1, 1))
            .OrderBy(n => n.Name)
            .Skip(1).Take(1);

        //var query = context.Ninjas;
        // var someninjas = query.ToList();
        foreach (var ninja in ninjas)
        {
            Console.WriteLine(ninja.Name);
        }
    }
}
```

```
file:///S:/CloudCopy_theDropBoxCopyWIthLotsOfGB/Copy/EF6 Course/Module 3/...
Opened connection at 6/28/2015 11:41:26 AM -04:00

SELECT
    [Extent1].[Id] AS [Id],
    [Extent1].[Name] AS [Name],
    [Extent1].[ServedInOniwaban] AS [ServedInOniwaban],
    [Extent1].[ClanId] AS [ClanId],
    [Extent1].[DateOfBirth] AS [DateOfBirth]
    FROM [dbo].[Ninjas] AS [Extent1]
    WHERE ([Extent1].[Name] = @p__linq__0) OR (([Extent1].[Name] IS NULL)
 AND (@p__linq__0 IS NULL))


-- p__linq__0: 'Raphael' (Type = String, Size = 4000)

-- Executing at 6/28/2015 11:41:26 AM -04:00

-- Completed in 23 ms with result: SqlDataReader



Closed connection at 6/28/2015 11:41:26 AM -04:00

Raphael
```

```
private static void RetrieveDataWithFind()
{
    var keyval = 4;
    using (var context = new NinjaContext())
    {
        context.Database.Log = Console.WriteLine;
        var ninja = context.Ninjas.Find(keyval);
        Console.WriteLine("After Find#1:" + ninja.Name);

        var someNinja = context.Ninjas.Find(keyval);
        Console.WriteLine("After Find#2:" + someNinja.Name);
        ninja = null;
    }
}
```



pluralsight

Resources

- EF6 Development Site: entityframework.codeplex.com
- EF6 Ninja Edition: What's New in EF6 (Pluralsight): bit.ly/PS-EF6
- Querying Entity Framework (Pluralsight): bit.ly/PS-EFQueries
- Entity Framework in the Enterprise (Pluralsight): bit.ly/PS-EFEnterprise
- My Blog: thedatafarm.com/blog
- EF Team Blog: blogs.msdn.com/adonet

pluralsight

Julie Lerman

thedatafarm.com | @julielerman

pluralsight