

Telemark University College

Department of Electrical Engineering, Information Technology and Cybernetics



Using SQL Server in C#

with Examples

Hans-Petter Halvorsen, 2014.03.01

Table of Contents

1.	Introduction	4
2.	SQL Server	5
2.1.	Database Systems	5
2.2.	Structured Query Language	5
3.	Visual Studio	6
3.1.	The .NET Framework.....	6
3.2.	The C# Language	6
4.	Database Programming in C#.....	7
4.1.	ADO.NET	7
4.2.	Enterprise Library & Data Access Application Block	8
4.3.	LINQ	8
4.3.1.	LINQ to SQL	8
4.4.	Entity Framework.....	8
4.4.1.	LINQ to Entities	8
5.	ADO.NET	10
5.1.	Introduction	10
5.2.	Examples	10
6.	Enterprise Library.....	11
6.1.	Data Access Application Block	11
6.1.1.	Installation	11
7.	LINQ	13

7.1. LINQ to SQL	13
8. Entity Framework.....	14
8.1.	14
9. Web Services.....	15
10. 3-Tier Architecure	18
11. References	19

1. Introduction

This Tutorial gives an overview of different techniques for communicationg with SQL Server in Visual Studio and C#.

For more information about Software and Programming, please see my web site located here:

<http://home.hit.no/~hansha/>

2. SQL Server

...

2.1. Database Systems

...

For more information about Database Systems, please see the Tutorial “**Introduction to Database Systems**” located here:

<http://home.hit.no/~hansha/?tutorial=database>

2.2. Structured Query Language

...

For more information about SQL, please see the Tutorial “**Structured Query Language**” located here:

<http://home.hit.no/~hansha/?tutorial=sql>

[Click here to download full PDF material](#)