Dapper-dot-net

Dapper - a simple object mapper for .Net
Overview

- object mapper for .NET
- open source
- holds title king of Micro ORM framework for .NET (in terms of speed)
- developed by Stack Exchange
What is ORM?

- **Object Relational Mapper**
  - responsible for mapping between database and programming language
  - extends the IDbConnection by providing useful extension methods to query database
Requirements

- works with any database provider
  - no DB specific implementation
  - works across all .NET ADO providers (including SQLite, SQL CE, Firebird, Oracle, MySQL, PostgreSQL and SQL Server)
Installation

- from NuGet

  [https://www.nuget.org/packages/Dapper](https://www.nuget.org/packages/Dapper)

  PM> Install-Package Dapper

- to get the latest pre-release build, add `--Pre` to the end of the command
Why use Dapper?

- performance
- database provider independent
Limitations

- Dapper caches information about every query – despite routine flushes memory issues may occur
  - allows to materialize objects and process parameters quickly

- Dapper's simplicity means that many feature that ORMs ship with are stripped out
  - provides the tools needed most of the time
  - doesn't attempt to solve every problem
How does it work?

It is a three step process:

- create an IDbConnection object
- write a query to perform CRUD operations
- pass query as a parameter in Execute method
Methods provided by Dapper

- Execute
- Query
- QueryFirst
- QueryFirstOrDefault
- QuerySingle
- QuerySingleOrDefault
- QueryMultiple