# What's Dapper?

An ORM is an Object Relational Mapper, which is responsible for mapping between database and programming language.

# How Dapper Works?

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.

## Installation

Dapper is installed through NuGet:

PM> Install-Package Dapper

## Requirement

Dapper work with any database provider since there is no DB specific implementation.

# Dapper – Execute

Execute is an extension method which can be called from any object of type IDbConnection.

It can execute a command one or multiple times and return the number of affected rows. This method is usually used to execute:

- Stored Procedure
- Insert statement
- Update statement
- Delete statement

## Dapper – Query

Query method is an extension method which can be called from any object of type IDbConnection. It can execute a query and map the result.

The result can be mapped to:

- Anonymous
- Strongly Typed
- Multi-Mapping (One to One)
- Multi-Mapping (One to Many)
- Multi-Type

#### Example - Query Anonymous

Raw SQL query can be executed using Query method and map the result to a dynamic list.

#### Example - Query Strongly Typed

Raw SQL query can be executed using Query method and map the result to a strongly typed list.

## First, Single & Default

Be careful to use the right method. First & Single methods are very different.

Result	No Item	One Item	Many Items
First	Exception	ltem	First Item
Single	Exception	ltem	Exception
FirstOrDefault	Default	ltem	First Item
SingleOrDefault	Default	ltem	Exception