



**Code  
Academy**



**Lecturer**

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# Dapper

**Data**



# Today you will learn

01

What is Dapper?

Dapper



# Dapper

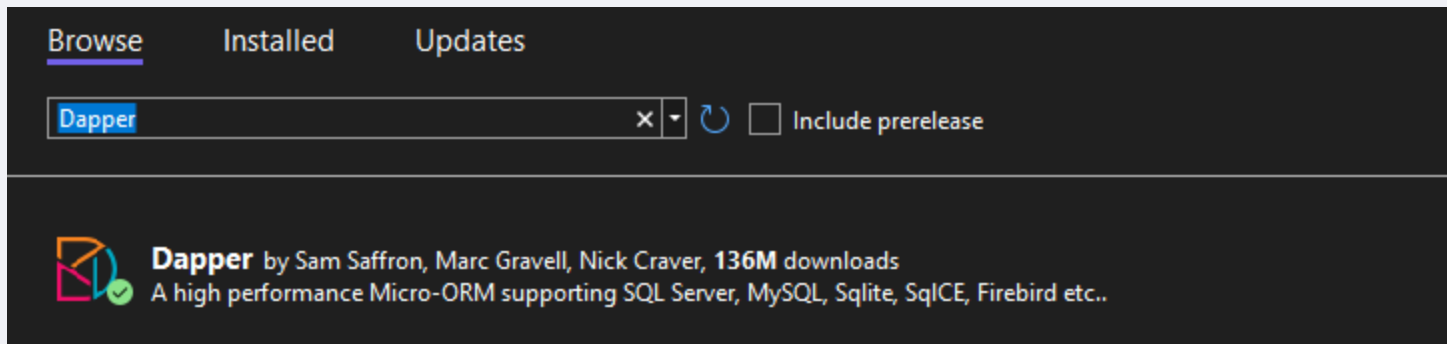
Dapper is the most popular Micro-orm, which is used when you want to achieve the fastest possible queries.

Dapper



# Dapper

Download the Dapper package



All the configuration you need is to create a SqlConnection and specify the Connection String

```
static void Main(string[] args)
{
    var sql = "SELECT * FROM TestData";
    var connString = $"Server=localhost;Database=Data;Trusted_Connection=True;";
    using var connection = new SqlConnection(connString);
    connection.Open();
    var data = connection.Query<TestData>(sql);
}
```



# Dapper

SP execution using Dapper:

First, we create a query, where we specify SP name and parameter name.

Then we create an anonymous variable with the the same field as the parameter name.

Then, by calling connectionQuery, we specify both query bit values.

```
internal class Program
{
    static void Main(string[] args)
    {
        var connString = $"Server=localhost;Database=Data;Trusted_Connection=True;";
        using var connection = new SqlConnection(connString);
        connection.Open();

        var sql = "EXECUTE [GetTestDataByName] @data_name;";
        var values = new { data_name = "Name5" };
        var data = connection.Query<TestData>(sql, values);
    }
}
```





# Dapper

It is also possible to create functionality by specifying only the procedure name

And in the connection.Query method, change the commandType to StoredProcedure

```
var procedure = "[GetTestDataByName]";  
var values = new { data_name = "Name5" };  
var data = connection.Query<TestData>(procedure, values, commandType: System.Data.CommandType.StoredProcedure);
```

It is also possible to use the **INSERT** type SP.



## Task 1

- Create a service that encapsulates the SQL functionality from the client, but inside itself execute Dapper methods to communicate with the database.(CRUD)
- Use the SP from the last lecture.
- Try making C# methods Generic.
- Think about what can be reused? And what will happen again?

Dapper



**Dapper**

<https://www.learndapper.com/>

**Useful  
information**