# Simple Nhibernate Mapping Example

Start by creating a simple MVC project and install Nhibernate Nuget package into the project solution by Opening the Package mangaer console.

install-package NHibernate

Verify for the successful installation message of the package.

In this example we are using a simple table named Customers with Id, FirstName, LastName and Status as columns.

## CRUD Operations Using Table/View

The mapping for a table or view is very similar in nhibernate mapping. Hence in this example, we would be creating a mapping for a table. In a similar way we can create mapping for View as well.

While using a table/view we need to create a hbm file for the model class and do the mapping accordingly.

The main key note that needs to be followed through out the sample is while adding hbm files , kindly make a note it change the ***Build Action to EmbeddedResource.*** As the hbm file plays a key role in our sample.

The mapping files are placed in a folder named Mapping under the NHibernateModels folder. A Nhibernate helper class is created in the Model class which we are using throughout the project.

Start off by creating a table using the below query.

--Create a table named Customers using the below script

CREATE TABLE Customers(

Id int primary key,

FirstName varchar(20),

LastName varchar(20),

Status bit

)

-----------------------------------------

--Insert some dummy data into the table

USE [MyDb]

GO

INSERT INTO [dbo].[Customers]

([Id]

,[FirstName]

,[LastName]

,[Status])

VALUES

(1,'Issac','Willy',0),

(2,'Marian','Grace',0),

(3,'Catherine','Joy',1)

GO

## CRUD Operations using Stored Procedure

While using a stored procedure we need to create a hbm file for each stored procedure and do the mapping.

### Stored Procedure to retrieve all Customers

USE [MyDb] --use your database name

GO

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE PROCEDURE [dbo].[sp\_GetCustomers] –stored procedure name

AS BEGIN

SELECT \* FROM Customers –table name

END

GO

### Stored Procedure to retrieve Customer Information using Last Name

USE [MyDb] --use your database name

GO

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE PROCEDURE [dbo].[GetCustomerByLastName] @lname nvarchar(50)

AS BEGIN

SELECT

Id,

FirstName,

LastName,

Status from Customers where LastName = @lname

END

GO

### Stored Procedure to retrieve a Customer using Id

USE [MyDb] --use your database name

GO

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE PROCEDURE [dbo].[GetCustomerById] @id int

AS BEGIN

SELECT

Id,

FirstName,

LastName,

Status from Customers where Id = @id

END

GO

### Stored Procedure to update a single Customer

USE MyDb --use your database name

GO

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE PROCEDURE [dbo].[spUpdateCustomer] @id int, @firstName nvarchar(50),@lastName nvarchar(50),@status bit

AS BEGIN

UPDATE Customers

SET FirstName = @firstName, LastName = @lastName, Status = @status

WHERE Id = @id

END

GO

### Stored Procedure to insert a Customer

USE MyDb --use your database name

GO

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

create procedure [dbo].[spCreateEmployee]

@FirstName nvarchar(50)

,@LastName nvarchar(50)

,@Status nvarchar(50)

AS BEGIN

INSERT INTO dbo.Customers(FirstName,LastName,Status)

VALUES(@FirstName,@LastName,@Status)

END

GO

### Stored Procedure to delete a Customer

USE MyDb --use your database name

GO

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE PROCEDURE [dbo].[spDeleteCustomer] @id int

AS BEGIN

DELETE FROM Customers

WHERE Id = @id

END

GO