- File -> New -> Project -> ASP.Net Web Application(.Net Framework) ->MVC (勾選 Web Forms)
- 2. Control Panel ->管理工具->服務>SQL Server(SQLExpress)啟動

3. View -> Server Explorer -> Data Connections -> Add Connection.. ->

Data Source: Microsoft SQL Server

Server Name: .\SQLEXPRESS

Select or Enter a Database Name: Northwind

按 OK

*安裝 Northwind 資料庫

Server Name: .\SQLEXPRESS

Select or Enter a Database Name: Master

按 OK

New Query-->執行 instnwnd.sql

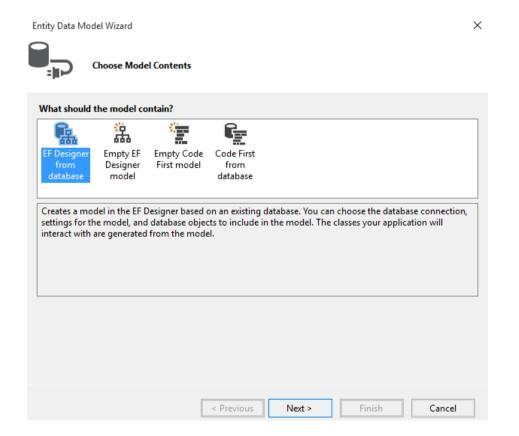
4. View -> Solution Explorer -> 在 Models 資料夾 -> Add -> New Item -> Data(左)

ADO.NET Entity Data Model (右)->

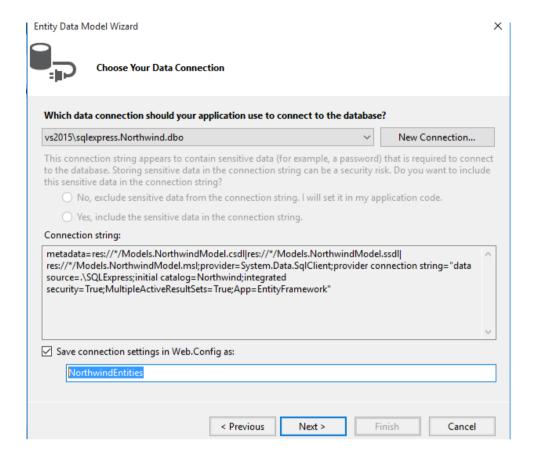
Name: NorthwindModel

按 Add

5. 點選 EF Designer from database ->按 Next



6.Save connection settings in Web.config as: NorthwindEntities->按 Next

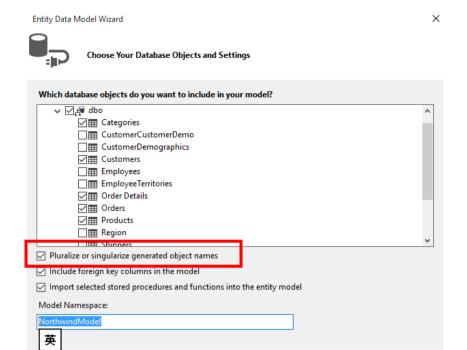


- 7. 選點 Entity Framework 6.x 按 Next
- 8.選點 Customers, Orders, Order Details, Products, Categories, Suppliers

勾選 Pluralize or singulaize generated object names

Model Namespace: NorthwindModel

按 Finish



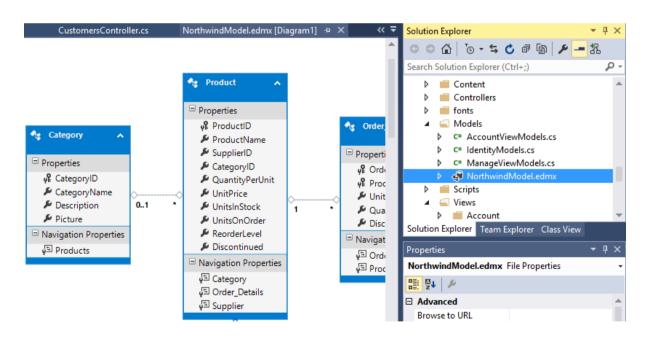
< Previous

9. Build -> Bulid Solution

View -> Solution Explorer -> 在 Models 資料夾--> 檢視 NorthwindModel.edmx

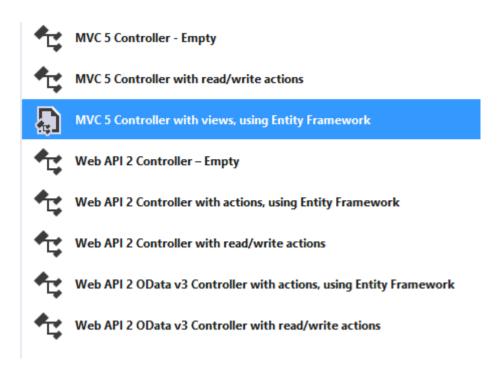
Finish

Cancel



10. Controllers 資料夾 → Add -> Controller...

MVC5 Controller with views , using Entity Framework 按 Add

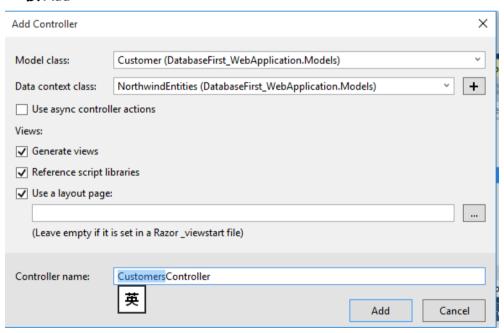


10.Model class: Customer (DatabaseFirst_Webapplication.Models)

Data context class: NorthwindEmtities (DatabaseFirst_Webapplication.Models)

Controller Name: CustomersController

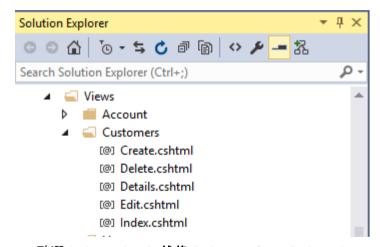
按 Add



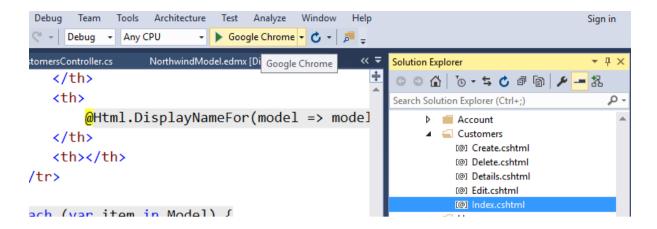
11.View -> Solution Explorer -> 在 ControllerIs 資料夾--> 檢視 <u>Customers</u>Controller.cs 會自動產生 Index, Details, Create, Edit, Delete 等 5 個 CRUD Actions

```
public ActionResult Index()...
0 references
public ActionResult Details(string id)...
public ActionResult Create()...
[HttpPost]
[ValidateAntiForgeryToken]
0 references
public ActionResult Create([Bind(Include = "CustomerID,C")
public ActionResult Edit(string id)...
[HttpPost]
[ValidateAntiForgeryToken]
0 references
public ActionResult Edit([Bind(Include = "CustomerID,Com
public ActionResult Delete(string id)...
[HttpPost, ActionName("Delete")]
[ValidateAntiForgeryToken]
public ActionResult DeleteConfirmed(string id)...
```

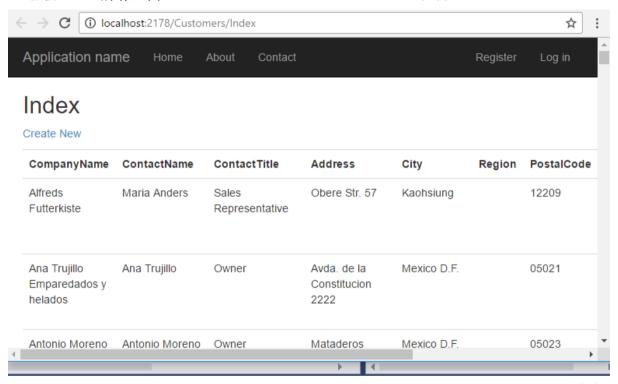
12.View -> Solution Explorer -> 在 Views 資料夾--> 檢視 <u>Customers</u>資料夾 會自動產生 Index.cshtml, Details.cshtml, Create.cshtml, Edit.cshtml, Delete.cshtml 等 5 個 Views



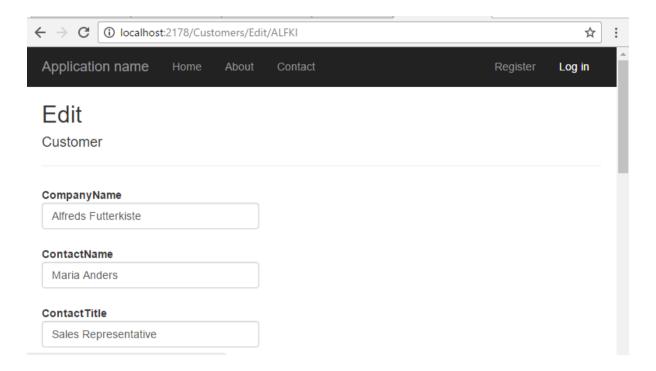
13.點選 Index.cshtml, 然後 Debug → Start Debugging



14.檢視 URL 路由, 是由 ../<ControllerName>/ <ActionName> 組合



15.在畫面點選 Edit 超連結, 檢視 URL 路由, 是由 ../<ControllerName>/ <各式ionName>/<參數 值> 組合



- 15.在畫面點選 Edit 超連結, 檢視 URL 路由, 是由 ../<ControllerName>/ <ActionName>/<參數 值> 組合
- 16.View -> Solution Explorer -> 在 App_Start 資料夾--> 檢視 RouteConfig.cs

在 RegisterRoutes 方法中, 找出路由設定 routes.MapRoute

```
public static void RegisterRoutes(RouteCollection routes)
{
   routes.IgnoreRoute("{resource}.axd/{*pathInfo}");

   routes.MapRoute(
        name: "Default",
        url: "{controller}/{action}/{id}",
        defaults: new { controller = "Home", action = "Index", id = UrlParameter.Optional }
   );
}
```