


## Lab 22/23 Breakout

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### ☒ Steps in SQL

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- ☐ 1) Open Microsoft SQL Server Management, start your server, note it's name!
- ☐ 2) Make a database and take note of it's name as well. I'm using the the CoffeeShopDB as an example
- ☐ 3) Create a table called items, fill it with these collumns: Name, description, Quantity, and price (or really whatever fields you need)
- ☐ 4) Make sure you set a column as your primary key! And make sure you set Identity specification to true if your ID is a number
- ☐ 5) Double check and make sure you have all your SQL parts built as you want to. It's difficult (though not impossible) to change your columns in your DB once you've connected to a .net project.

### ☒ Steps in Visual Studio

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- ☐ 0) Make sure you've updated VS via Extensions and Updates and downloaded the Entity Framework via Nuget.
- ☐ 1) Make a new Web APP
- ☐ 2) Choose MVC and uncheck host on Microsoft Azure, then hit okay
- ☐ 3) In the top drop down menu go to Tools -> Nuget Package Manager -> Manage Nuget Packages for Solution grab the entity framework package
- ☐ 4) Right click on models, go to Add, select new item....
- ☐ 5) Under the Data tab, select ADO.net entity model, name it after your chosen Database and click Add
- ☐ 6) Under the new pop-up select: Ef-Designer From Database
- ☐ 7) On the next menu hit the new connection button
- ☐ 8) Under server name, put in the name of your server, you can find it in the SQL Server Manager
- ☐ 9) Under database select the "CoffeeAPP" we built earlier
- ☐ 10) Hit test connection, if success, hit ok, if failure let's debug
- ☐ 11) In the choose your data connection menu, hit next
- ☐ 12) Select all the tables in your database you want to use
- ☐ 13) After the file generate, build your project

- ☐ 14) Look at Items.cs under our new models

## ☒ Building Your Controller

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- ☐ 0) Tell your Project to build!
- ☐ 1) Right click on your controllers folder
- ☐ 2) Go to Add.. and Add new scaffolding item
- ☐ 3) Select MVC 5 Controller with Views with entity Framework
- ☐ 4) New Window! Under model class, select one of your model classes
- ☐ 5) Under Data Context Select the CoffeeAPPDB Entities (or whatever the name of your DB)
- ☐ 6) .Net will build you a group of CRUD (Create Update Destroy) pages. These will allow you to manipulate your DB via your .Net Site. You will now have new controller managing a bunch of views that point to your Table

## ☒ Pro-Tips

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- ☐ Throughout this process, it's handy to keep SSMS open, just to make sure everything is working correctly.
- ☐ Note: Entity is slow and heavy, if it takes a minute for something to load be cool. The new connection and pick a table dialogues are particularly notorious for being slow.

## Activity

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