**PART-PRACTICE TEST 01 - Database and "Identity" membership setup with Northwind**

Use ASP.NET Core 2.2 if available, otherwise ASP.NET Core 2.1 is acceptable.

**Question ONE - Setup [1 mark]**From Canvas, Download file "PracticeNorthwind.zip".  
Move this into "C:\Users\<Your Username>"  
Or Mac or personal laptop defined working area.

Unzip -- 7-Zip recommended -- using "Extract Here".  
You should now have folder "PracticeNorthwind".  
as in "C:\Users\<Your Username>\PracticeNorthwind" for lab machines.  
Rename this adding your first name. e.g. John would rename his folder "PracticeNorthwind\_John"

Use Visual Studio to create a new ASP.NET Core 2.2 (or 2.1) web app   
under "PracticeNorthwind \_<FirstName>".  
Do NOT check (tick) the checkbox "Create directory for solution"   
Name the app "MVCManukauTech"  
Select option "Web Application (Model-View-Controller)"  
Click button "Change Authentication" and change authentication to "Individual User Accounts".  
Create this app.  
 **Question TWO - Database Setup** **[1 mark]**  
Use your database account to create a new empty database to work with.  
Name it in a similar way to your starter database using "PNorthwind" as the 3rd part of the database name.  
eg John has a starter database "F191\_John\_Starter"  
He creates this new one as "F191\_John\_PNorthwind"

Then load the supplied script "Northwind\_JPC\_v03.sql" into SQL Management Studio (or Visual Studio). Edit the name of your new database into the script .

Run the script to populate the database. Check that tables have appeared.  
Show the result to your marking lecturer who will assess this "on the spot".  
It is essential for you to complete this question to be able to move on to most of the other questions.  
For that reason the lecturer may help you complete Questions ONE and TWO but in such a case you will probably get reduced marks for these questions depending on the reasons for you getting stuck.

**Question THREE [1 mark]**Edit app file "appsettings.json" to include the connection string for the database you have created.  
Test this by registering a test user. This should generate the "AspNetUsers" and related Identity tables in the Database. Check for this result.

**To do Question FOUR and Question FIVE, work through "Adding Custom Fields Core JPC edit v06.docx".  
Question FOUR** **[2 marks]**  
Add 2 new membership fields (columns) for extra member information  
in table "AspNetUsers". These new fields are: "Height" and "Birthdate"   
You choose appropriate data types for them.  
NOTE - the real test will ask for more than 2 new fields. This question is made easier for first learning.

**Question FIVE** **[4 marks]**  
Make the necessary code and UI changes so that the Registration Form now includes   
these 4 extra fields and the code saves their user data entry to table "AspNetUsers".

**Question SIX [2 marks]**  
Work through the "Scaffold-DbContext" command process which causes your app systems   
to scan the database tables and automatically generate the classes for data access.

**Question SEVEN [2 marks]**  
Get database table “Suppliers” to display as an on screen web user interface.  
with Create, Update and Delete capabilities.  
  
**Question EIGHT [2 marks]**  
In the "Details" view generated in Question SEVEN, replace the generated   
"TagHelpers" and "HtmlHelpers" with code that is as close to standard HTML as possible.

**Question NINE** [5 marks] will be about remote service web apps and JSON  
We will practice these in other exercises and practice tests.

**Test will have 20 marks**