**Sample Questions only for PRACTICAL TEST02.**The real test will be bigger than this.Details and mark allocations are all subject to change for the "real test"

Test Setup

The "real test" will ask you to setup database and App.

For this practice test we use "**NorthwindProducts\_v04-Core-with-better-Keys.zip"**Which means we skip Questions ONE and TWO.

**Question ONE - Remote Database setup including connection, Identity tables.**SKIP – already provided for this practice test.  
This may be in the Real Test.

**Question TWO**Create a "Scaffold-DbContext" command and run it in the "Package Manager Console"  
to cause your app systems to scan the database tables and generate the classes for data access.  
Do the necessary follow-ups to get data access working. **\**  
SKIP – already provided for this practice test.  
This may be in the Real Test.

**Question THREE**   
Generate Controller "EmployeesController" and its associated Views using Entity Framework,   
based on data from table “Employees”.

**Question FOUR**   
4-1 Provide a Employees Search. [3 marks]  
 Do this by modifying the Employees Controller and View code   
 to provide a search across the fields LastName and FirstName.  
 The user enters a single Search String and your code looks for a match in any  
 of these 2 fields.

4-2 This table includes photo binary data in field photo. This data is not useful in   
 our on-screen display. Modify the cshtml file so it does NOT display this field. [2 marks]

4-2 Make this an auto-suggest search [1 mark]

4-3 Make this an auto suggest search with user-friendly display of the suggestions   
 as clickable list items under the search input field. [1 mark]

**Question FIVE**

Analyse the SQL below and its data fields to create a ViewModel

Then use that ViewModel with the SQL to create an on-screen display

by adding a Method "Report1" and its View to "EmployeesController".

Rewrite the View as an Angular.JS page.   
Rewrite the Method "Report1" to work with your new Angular.JS View.

SELECT Employees.Country, Employees.LastName, Employees.FirstName, Orders.ShippedDate, Orders.OrderID

FROM Employees INNER JOIN Orders

ON Employees.EmployeeID = Orders.EmployeeID

WHERE Orders.ShippedDate Between '1990-01-01' And '1999-12-31'

**QUESTION SIX (Bootstrap)**

NOTE – for this case where columns get to rearrange themselves in rows, you need to set the height of the column

Use Bootstrap coding to get the "Health of Houses " page sections to display with columns   
On "large" displays: Like this

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Health of Houses | | | | | |
| Pure Air | Pure Water | Drainage | Sinks | Cleanliness | Light |

On "medium" displays:Like this

|  |  |  |
| --- | --- | --- |
| Health of Houses | | |
| Pure Air | Pure Water | Drainage |
| Sinks | Cleanliness | Light |

On "small" displays:Like this

|  |  |
| --- | --- |
| Health of Houses | |
| Pure Air | Pure Water |
| Drainage | Sinks |
| Cleanliness | Light |

On "extra-small" displays the display changes to a simple single column layout.