MIS 333K Homework 6 Criteria

This assignment is completely separate from the member tracker you created in Homeworks 3 and 4. Don’t worry – the member tracker will be back for homeworks 7 and 8. The goal for this assignment is to practice using LINQ to create search pages for your applications. Please use the Entity Framework skills and the information and the detailed HW6 instructions document to complete this homework. You should not be directly writing any SQL.

The model for this assignment is fairly small. The model is designed to hold information about customers who have visited a website. There is a customer class and a frequency class. Both of these classes are provided for you. Each customer has been assigned a single frequency, which represents how often that customer visits our website.

I have created a Seed method for you using the classes mentioned above. There are 250 rows of fake data that were generated by a site called <https://mockaroo.com/>. This is ALL of the data that should be in the database. **DO NOT ADD OR DELETE ANY RECORDS OR MOST OF YOUR HOMEWORK WILL BE WRONG.** If you follow the detailed instructions, adding this data to the database will not be difficult. If you are adding data manually, you are doing something wrong!!

**You should create two pages for this application:**

1. A home page that does the following
   1. Displays all properties (except id) from the customer class.
   2. When the site opens, this site should show with all the records. T
   3. Have a “quick search” box that allows the user to search by name without leaving the page.
   4. Display the results of all searches (both quick searches and advanced searches)
   5. At the top of the page, display a record count for the records displayed and the total records. Ex. “Displaying 37 of 250 Customers”
2. An “advanced search” page that allows the user to search using the following criteria:
   1. Name – a textbox to allow the user search both first and last name fields
   2. Frequency – a drop-down list that allows the user to select the desired frequency. User can only select a single frequency from this list. Be sure to include an “all frequencies” option if the user does not want to include frequency in their search.
   3. Gender – a group of radio buttons to limit search by gender. There should be an option for “All Genders” so the user isn’t forced to pick a gender.
   4. Average sales – this will be a combination of a textbox for the desired sales amount and two radio buttons. The radio buttons allow the user to search for “Greater Than” or “Less Than” the amount in the box. For example, if the user types in 400 in the textbox and chooses “Greater Than,” the results will display all of the customers who have sales greater than OR EQUAL TO 400. Choosing “Less Than” will show everyone who has sales less than OR EQUAL TO 400. Customers with exactly 400 in sales should show in both searches. Make sure to check to see if the value in the textbox is a valid number.

**Misc. Requirements**

1. Again, make sure that your search results page has “Showing X of Y Customers” displayed at the top of the page. This code should be flexible enough to display a different number of customers if we later choose to add or delete. (Do not hard-code 250 as the customer count.)
2. Sort all results by last name, first name, and then daily sales.
3. Advanced search should be an “AND” search. If a customer selects “female” and “weekly,” only female customers who visit the site weekly should be included. Male customers who visit weekly should NOT be displayed. Neither should women who visit the site daily, seldom, etc.
4. If the selected criteria don’t result in any users, just display “0 out of X Customers” and leave the table headers. You don’t need to display anything special for this case.
5. Do not create any pages that allow the user to create, delete or edit the data. We need the data clean so we can check that your searches are working correctly.
6. Publish your site to Azure with a different URL than HW3 and HW4. Submit the URL and zip file on Canvas.