

Test

The code is under <https://github.com/itamaredbmaestro/BlazorTest>

Please share your screen while doing this test.

The test should take around 2 hours.

The following program has a list of employees working in customer support, for each employee we have the number of calls handled in regards to the minimum requirement of 10 calls per working day (that number could be negative if they handled less than required).

Question 1

Update "BlazorDbTable\Pages\EEmail.razor" to look like this:

<div>merav@dbmaestro.com</div> <div>ori@dbmaestro.com</div>	<div>Email content 1</div>
	<div>Email content 2</div>

Use "BlazorDbTable\ViewModel\EEmailsVM.cs" as the view model for this page.

All the content will be taken from "BlazorTestBL\BlazorTestBL.cs" class.

The functions that you need are "GetEmployees" to get the list of employees and their emails and "CreateEmployeeEmail" to get the list of emails for a specific employee.

Use "BlazorDbTable\Pages\Employees.razor" and "BlazorDbTable\ViewModel\EmployeesVM.cs" as a reference if needed.

Question 2

Implement the method `BlazorTestBL.GetEmployeeBestPerformance`

This method returns the consecutive days where the sum of all the calls handled over the minimum required is the largest,

i.e

Day 1 – (-2)

Day 2 – 1

Day 3 – (-3)

Day 4 – 4

Day 5 – (-1)

Day 6 – 2

Day 7 – 1

Day 8 – (-5)

Day 9 – 4

The result should be Days 4-7 where the number of calls over is 6.

In other words, find the sub array from an array of positive and negative numbers that has the maximum sum.

Put the algorithm in “BlazorTestBL\BlazorTestBL.cs” in function
“GetEmployeeBestPerformance”

Results should be:

First Name	Last Name	From Day	To Day	Num Tickets
Dany	Cohen	1	24	43
Ory	Levy	23	29	26
Ortal	Meir	8	29	38
Merav	Epstein	3	10	22

Database

You have the following tables:

Competitors:

ID	Name	PhoneNO	Address
1	Danny	052-1234567	Hayarkon Tel Aviv
2	Lisa	052-2223344	Rotchiled Tel Aviv
3	Avi	052-7654321	King Gorge Tel Aviv

Contests:

ID	Content
1	Scavenger hunt
2	House decoration
3	Arts and Crafts

Results:

Competitor	Contest	Points
1	1	5
1	2	5
1	3	5
2	2	8
2	3	2
3	1	7
3	2	2
3	3	9

Question 1

Create a query that will return for each competitor, how many points he has.

The results should be:

ID	Name	Points
1	Danny	15
2	Lisa	10
3	Avi	18

Question 2

Create a query that will return competitors that didn't participate in one of the contents and which contest they didn't participate in.

The results should be:

Competitor_ID	Competitor_Name	Contest_ID	Contest_Name
2	Lisa	1	Scavenger hunt