ASP.NET Core MVC 3.1

Tahaluf Training Center 2021

Chapter 10

Create **Search** Action in AdminController.

```
[HttpGet]
0 references
public IActionResult Search()
{

    var modelContext = _context.ProductCustomers.Include(p => p.Customer).Include(p => p.Product).ToList();
    return View(modelContext);



}
```

```
[HttpPost]
0 references
public async Task<IActionResult> Search(DateTime? stratDate, DateTime? endDate)
{

    var modelContext = _context.ProductCustomers.Include(p => p.Customer).Include(p => p.Product);

    if (stratDate == null && endDate == null)
    {
        return View(modelContext);

    }
    else if (stratDate == null && endDate != null)
    {

        var result = await modelContext.Where(x => x.DateFrom.Value.Date == endDate).ToListAsync();
        return View(result);
    }
```

```csharp
else if (stratDate != null && endDate == null)
{

    var result = await modelContext.Where(x => x.DateFrom.Value.Date == stratDate).ToListAsync();
    return View(result);
}
else
{
    var result = await modelContext.Where(x => x.DateFrom >= stratDate && x.DateFrom <= endDate).ToListAsync();
    return View(result);
}

}
```

Create a **Search** view in the Admin view and create a form that searches between two dates.

```html
<div class="row">
    <div class="col-6">
        <form action="Search" method="post">
            <input type="date" class="form-control" name="stratDate" placeholder="Start Date">
            <input type="date" class="form-control" name="endDate" placeholder="End Date">

            <button type="submit" class="btn btn-dark">Search</button>

        </form>
    </div>
</div>
```

```
<div class="row">
    <div class="col-10">
        <table class="table example">
            <thead>
                <tr>
                    <th>Customer First Name </th>
                    <th>Customer Last Name </th>
                    <th>Product Name</th>
                    <th>Quantity</th>
                    <th>Price</th>
                    <th>Date From</th>
                    <th>Date To</th>
                </tr>
            </thead>
```

```html
<tbody>
    @foreach (var item in Model)
    {
        <tr>
            <td> @Html.DisplayFor(modelItem => item.Customer.Fname)
            </td>
            <td> @Html.DisplayFor(modelItem => item.Customer.Lname)
            </td>
            <td> @Html.DisplayFor(modelItem => item.Product.Namee)
            </td>
            <td> @Html.DisplayFor(modelItem => item.Quantity)
            </td>
            <td> @(item.Quantity * item.Product.Price)
            </td>
            <td> @Html.DisplayFor(modelItem => item.DateFrom)
            </td>
            <td> @Html.DisplayFor(modelItem => item.DateTo)
            </td>
        </tr>
    }
</tbody>
</table>
</div>
</div>
```
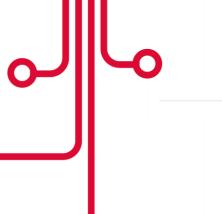
Search

The Result

Chapter 10

DataTables

DataTables is a plug-in for the jQuery JavaScript library. It's a powerful tool that adds a lot of advanced features to any HTML table such as Pagination, Instant search, and Multi-column ordering

In **JoinTable** view add the attribute Id = "example" in the start tag of the table

Add the following Scripts to the end of the JoinTable view

```html
<script src="https://code.jquery.com/jquery-3.5.1.js"></script>

<script src="https://cdn.datatables.net/1.11.1/js/jquery.dataTables.min.js" defer></script>

<script src="https://cdn.datatables.net/buttons/2.0.0/js/dataTables.buttons.min.js" defer></script>
```

```html
<script
src="https://cdnjs.cloudflare.com/ajax/libs/jszip/3.1.3/jsz
ip.min.js"></script>

<script
src="https://cdnjs.cloudflare.com/ajax/libs/pdfmake/0.1.53/
pdfmake.min.js"></script>
<script
src="https://cdnjs.cloudflare.com/ajax/libs/pdfmake/0.1.53/
vfs_fonts.js"></script>
<script
src="https://cdn.datatables.net/buttons/2.0.0/js/buttons.ht
ml5.min.js" defer></script>
```

```
<script>
    $(document).ready(function () {
        $('#example').DataTable({
            dom: 'Bfrtip',
            buttons: [
                'copyHtml5',
                'excelHtml5',
                'csvHtml5',
                'pdfHtml5'
            ]
        });
    });
</script>
```

DataTables

```html
31
32    <script src="https://code.jquery.com/jquery-3.5.1.js"></script>
33
34    <script src="https://cdn.datatables.net/1.11.1/js/jquery.dataTables.min.js"></script>
35
36    <script src="https://cdn.datatables.net/buttons/2.0.0/js/dataTables.buttons.min.js"></script>
37
38    <script src="https://cdnjs.cloudflare.com/ajax/libs/jszip/3.1.3/jszip.min.js"></script>
39
40    <script src="https://cdnjs.cloudflare.com/ajax/libs/pdfmake/0.1.53/pdfmake.min.js"></script>
41    <script src="https://cdnjs.cloudflare.com/ajax/libs/pdfmake/0.1.53/vfs_fonts.js"></script>
42    <script src="https://cdn.datatables.net/buttons/2.0.0/js/buttons.html5.min.js"></script>
43
44    <script>
45        $(document).ready(function () {
46            $('#example').DataTable({
47                dom: 'Bfrtip',
48                buttons: [
49                    'copyHtml5',
50                    'excelHtml5',
51                    'csvHtml5',
52                    'pdfHtml5'
53                ]
54            });
55        });
56    </script>
57
```

DataTables

COPY	EXCEL	CSV	PDF

Search:

Customer Name ↑↓	Product Name ↑↓	Category Name ↑↓	Product Price ↑↓	⚙
Aseel	item 3	category2	10	
Bayan	item 6	category3	30	
Bayan	item 5	category3	30	
lilas	item2	category1	10	
mohammad	item2	category1	10	
mohammad	item 3	category2	10	

Showing 1 to 6 of 6 entries

PREV 1 NEXT

Chapter 10

Exercise

Create a View called Report that Contains what you learned in the previous two lectures.

Hint: Search, Tuple, DateTable, Join.

Create **Report** action in the Home controller.

```csharp
[HttpGet]
0 references
public IActionResult Report()
{
    var customer = _context.Customers.ToList();
    var procustomers = _context.ProductCustomers.ToList();
    var products = _context.Products.ToList();
    var categoreys = _context.Categories.ToList();
    var multiTable = from c in customer
                     join pc in procustomers on c.Id equals pc.CustomerId
                     join p in products on pc.ProductId equals p.Id
                     join cat in categoreys on p.CategoryId equals cat.Id
                     select new JoinTable { Product = p, Customer = c, ProductCustomer = pc, category = cat };
    var modelContext = _context.ProductCustomers.Include(p => p.Customer).Include(p => p.Product).ToList();
    ViewBag.TotalQuantity = modelContext.Sum(x => x.Quantity);
    ViewBag.TotalPrice = modelContext.Sum(x => x.Product.Price * x.Quantity);
    var model3 = Tuple.Create<IEnumerable<JoinTable>, IEnumerable<ProductCustomer>>(multiTable, modelContext);
    return View(model3);
}
}
```

Reports

```csharp
[HttpPost]
0 references
public async Task<IActionResult> Report(DateTime? stratDate, DateTime? endDate)
{
    var customer = _context.Customers.ToList();
    var procustomers = _context.ProductCustomers.ToList();
    var products = _context.Products.ToList();
    var categoreys = _context.Categories.ToList();

    var multiTable = from c in customer
                     join pc in procustomers on c.Id equals pc.CustomerId
                     join p in products on pc.ProductId equals p.Id
                     join cat in categoreys on p.CategoryId equals cat.Id
                     select new JoinTable { Product = p, Customer = c, ProductCustomer = pc, category = cat };

    var modelContext = _context.ProductCustomers.Include(p => p.Customer).Include(p => p.Product);

    if (stratDate == null && endDate == null)
    {
        ViewBag.TotalQuantity = modelContext.Sum(x => x.Quantity);
        ViewBag.TotalPrice = modelContext.Sum(x => x.Product.Price * x.Quantity);
        var model3 = Tuple.Create<IEnumerable<JoinTable>, IEnumerable<ProductCustomer>>(multiTable, await modelContext.ToListAsync());
        return View(model3);
    }
}
```

```csharp
else if (stratDate == null && endDate != null)
{
    ViewBag.TotalQuantity = modelContext.Where(x => x.DateFrom.Value.Date == endDate).Sum(x => x.Quantity);
    ViewBag.TotalPrice = modelContext.Where(x => x.DateFrom.Value.Date == endDate).Sum(x => x.Product.Price * x.Quantity);

    var model3 = Tuple.Create<IEnumerable<JoinTable>, IEnumerable<ProductCustomer>>(multiTable, await modelContext.Where(x => x.DateFrom.Value.
    return View(model3);
}
else if (stratDate != null && endDate == null)
{
    ViewBag.TotalQuantity = modelContext.Where(x => x.DateFrom.Value.Date == stratDate).Sum(x => x.Quantity);
    ViewBag.TotalPrice = modelContext.Where(x => x.DateFrom.Value.Date == stratDate).Sum(x => x.Product.Price * x.Quantity);

    var model3 = Tuple.Create<IEnumerable<JoinTable>, IEnumerable<ProductCustomer>>(multiTable, await modelContext.Where(x => x.DateFrom.Value.
    return View(model3);
}
else
{
    ViewBag.TotalQuantity = modelContext.Where(x => x.DateFrom >= stratDate && x.DateFrom <= endDate).Sum(x => x.Quantity);
    ViewBag.TotalPrice = modelContext.Where(x => x.DateFrom >= stratDate && x.DateFrom <= endDate).Sum(x => x.Product.Price * x.Quantity);
    var model3 = Tuple.Create<IEnumerable<JoinTable>, IEnumerable<ProductCustomer>>(multiTable, await modelContext.Where(x => x.DateFrom >= str
    return View(model3);
}
}
```

Create **Report** View in the Home Views.


```
@model Tuple<IEnumerable<WebApplication51.Models.JoinTable>, IEnumerable<WebApplication51.Models.Procustomer>>
@{
    ViewData["Title"] = "Index";
}
<link href="https://cdn.datatables.net/1.11.1/css/jquery.dataTables.min.css" rel="stylesheet" />
<link href="https://cdn.datatables.net/buttons/2.0.0/css/buttons.dataTables.min.css" rel="stylesheet" />
<div class="container">

    <div class="p-3 mb-2 bg-dark text-white text-center font-weight-bold">Report 1</div>

    <div class="row">
        <div class="col-6">
            <form action="Report" method="post">
                <input type="date" class="form-control" name="stratDate" placeholder="Start Date">
                <input type="date" class="form-control" name="endDate" placeholder="End Date">


                <button type="submit" class="btn btn-dark">Search</button>


            </form>
        </div>
    </div>
</div>
```

```html
<div class="row">
    <div class="col-10">
        <table class="table example">
            <thead>
                <tr>
                        <th> Customer First Name</th>
                        <th> Customer Last Name</th>
                        <th> Product Name</th>
                        <th> Quantity</th>
                        <th> Price</th>
                        <th> Date From</th>
                        <th> Date To</th>
                </tr>
            </thead>
```

```
<tbody>
    @foreach (var item in Model.Item2)
    {
        <tr>
            <td> @Html.DisplayFor(modelItem => item.Customer.Fname)</td>
            <td> @Html.DisplayFor(modelItem => item.Customer.Lname)</td>
            <td> @Html.DisplayFor(modelItem => item.Product.Namee)</td>
            <td> @Html.DisplayFor(modelItem => item.Quantity)</td>
            <td> @(item.Quantity * item.Product.Price)</td>
            <td> @Html.DisplayFor(modelItem => item.DateFrom)</td>
            <td> @Html.DisplayFor(modelItem => item.DateTo)</td>
        </tr>
    }

</tbody>
```

```html
        <tfoot>
            <tr>
                <td>Total Quantity</td>
                <td>@ViewBag.TotalQuantity</td>
                <td></td>
                <td></td>
                <td></td>
            </tr>
            <tr>
                <td>Total Price</td>
                <td>@ViewBag.TotalPrice</td>
                <td></td>
                <td></td>
                <td></td>
            </tr>
        </tfoot>
    </table>

    </div>
</div>
```

```html
<div class="p-3 mb-2 bg-dark text-white text-center font-weight-bold">Report 2</div>
<div class="row">
    <div class="col-10">
        <table class="table example">
            <thead>
                <tr>
                    <th>Customer Name</th>
                    <th>Product Name</th>
                    <th>Category Name</th>
                    <th>Product Price</th>
                </tr>
            </thead>
            <tbody>
                @foreach (var item in Model.Item1)
                {
                    <tr>
                        <td>@item.Customer.Fname</td>
                        <td>@item.Product.Sale</td>
                        <td>@item.category.CategoryName</td>
                        <td>@item.Product.Price</td>
                    </tr>
                }
            </tbody>
        </table>
    </div>
</div>
</div>
```

```
<script src="https://code.jquery.com/jquery-3.5.1.js"></script>

<script src="https://cdn.datatables.net/1.11.1/js/jquery.dataTables.min.js"></script>

<script src="https://cdn.datatables.net/buttons/2.0.0/js/dataTables.buttons.min.js"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/jszip/3.1.3/jszip.min.js"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/pdfmake/0.1.53/pdfmake.min.js"></script>
<script src="https://cdnjs.cloudflare.com/ajax/libs/pdfmake/0.1.53/vfs_fonts.js"></script>
<script src="https://cdn.datatables.net/buttons/2.0.0/js/buttons.html5.min.js"></script>

<script>
    $(document).ready(function () {
        $('.example').DataTable({
            dom: 'Bfrtip',
            buttons: [
                'copyHtml5',
                'excelHtml5',
                'csvHtml5',
                'pdfHtml5'
            ]
        });
    });
</script>
```

Reports

Report 1

| mm/dd/yyyy | 📅 |
| mm/dd/yyyy | 📅 |

SEARCH

| COPY | EXCEL | CSV | PDF |

Search: [   ]

Customer First Name	Customer Last Name	Product Name	Quantity	Price	Date From	Date To
Aseel		item 3	60.00	600	2/3/2022 1:39:23 AM	3/30/2022 1:39:34 AM
Bayan		item 5	40.00	1200		
Bayan		item 6	20.00	600	3/26/2022 10:37:48 PM	4/13/2022 10:37:39 PM
lilas		item2	50.00	500	7/8/2022 1:38:53 AM	1/14/2022 1:39:08 AM
mohammad	ishaq	item2	555.00	5550	1/1/2022 4:41:00 PM	1/24/2022 4:42:00 PM
mohammad	ishaq	item 3	44.00	440	3/10/2022 10:37:17 PM	3/31/2022 10:37:25 PM
Total Quantity	769					
Total Price	8890					

Report 2

COPY   EXCEL   CSV   PDF

Search: [   ]

Customer Name	Product Name	Category Name	Product Price
Aseel	item 3	category2	10
Bayan	item 6	category3	30
Bayan	item 5	category3	30
lilas	item2	category1	10
mohammad	item2	category1	10
mohammad	item 3	category2	10

Showing 1 to 6 of 6 entries

PREV   1   NEXT