

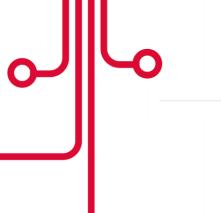


# **ASP.NET Core MVC 3.1**

**Tahaluf Training Center 2021** 









**Chapter 10** 

- 1 Search
- 2 DataTables
- 3 Reports



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## Create Search Action in Home Controller

```
[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);
```





#### Search



```
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);
}</pre>
```



#### Search



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







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







```
aforeach (var item in Model)
    @(item.Quantity * item.Product.Price)
      @Html.DisplayFor(modelItem => item.DateTo)
     </div>
```





# Search

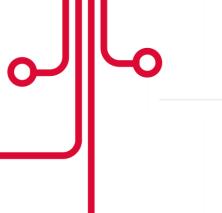


# **The Result**

Customer Last Name	Product Name	Quantity	Price	Date From	Date To	
Hasan	Yougert	5.00	1170	4/22/2022 12:17:00 AM	4/24/2022 12:17:06 AM	
ahmad	Rice	7.00	140	3/11/2022 12:17:29 AM	3/18/2022 12:17:39 AM	
ahmad	chicken	10.00	150	3/1/2022 12:18:00 AM	3/3/2022 12:18:08 AM	
moh	Yougert	20.00	4680	2/10/2022 12:18:25 AM	2/18/2022 12:18:32 AM	
	Hasan ahmad ahmad	Hasan Yougert ahmad Rice ahmad chicken	Customer Last Name Product Name Quantity Hasan Yougert 5.00 ahmad Rice 7.00 ahmad chicken 10.00	Hasan Yougert 5.00 1170 ahmad Rice 7.00 140 ahmad chicken 10.00 150	Customer Last Name         Product Name         Quantity         Price         Date From           Hasan         Yougert         5.00         1170         4/22/2022 12:17:00 AM           ahmad         Rice         7.00         140         3/11/2022 12:17:29 AM           ahmad         chicken         10.00         150         3/1/2022 12:18:00 AM	









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# **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

٦





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

```
@model IEnumerable<JoinTable>
<thead>
     Customer Name
       Product Name
       Category Name
       Product Price
  </thead>
  @foreach (var item in Model)
          @item.Customer.Fname
          @item.Product.Proname
          @item.Categorey.Catname
          @item.Product.Proprice
```



#### **Data Tables**



Add the following Scripts to the top of the Join Table view

```
<script
src="//ajax.googleapis.com/ajax/libs/jquery/1.11.1/jquery.min.
js"></script>
    <link href="~/Content/bootstrap.css" rel="stylesheet" />
    <link</pre>
href="https://cdn.datatables.net/1.10.15/css/dataTables.bootst
rap.min.css" rel="stylesheet" />
    Iink
href="https://cdn.datatables.net/responsive/2.1.1/css/responsi
ve.bootstrap.min.css" rel="stylesheet" />
    <script
src="https://cdn.datatables.net/1.10.15/js/jquery.dataTables.m
in.js"></script>
    <script
src="https://cdn.datatables.net/1.10.15/js/dataTables.bootstra
p4.min.js "></script>
```







Add the following Scripts to the end of the JoinTable view

```
<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>
```



#### **Data Tables**



```
<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>
```







```
oinTables.cshtml + × Search.cshtml
                                              Report.cshtml
                                                             JoinTable.cs
                               Index.cshtml
                                                                                                            Product.cs
                                                                           Procustomer.cs
                                                                                            appsettings.json
            <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>
⊟¦ $(doo
                $(document).ready(function () {
                    $( #example').DataTable({
                        dom: 'Bfrtip',
                         buttons: [
                             'copyHtml5',
                             'excelHtml5',
                             'csvHtml5',
                             'pdfHtml5'
                });
            </script>
```



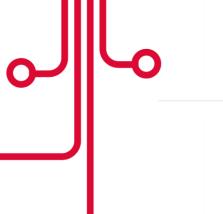


# **Data Tables**



COPY EXCEL CS\	/ PDF			
			Search:	
Customer Name	↑↓ Product Name	↑↓ Category Name	↑↓ Product Price	<b>⇔</b> <sup>†</sup>
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				
			PRE	/ 1 NEXT







**Chapter 10** 

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# **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.

```
[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);
```





```
[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);
```





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







```
@foreach (var item in Model.Item2)
    >
        @Html.DisplayFor(modelItem => item.Customer.Fname)
        @Html.DisplayFor(modelItem => item.Customer.Lname)
        @Html.DisplayFor(modelItem => item.Quantity)
        @(item.Quantity * item.Product.Price)
        @Html.DisplayFor(modelItem => item.DateTo)
```







```
<tfoot>
       Total Quantity
         d>@ViewBag.TotalQuantity
         Total Price
         @ViewBag.TotalPrice
         </tfoot>
   </div>
</div>
```







```
<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">
       <thead>
             Customer Name
               Product Name
               Category Name
               Product Price
            </thead>
          @foreach (var item in Model.Item1)
               @item.Customer.Fname
                  @item.Product.Sale
                  @item.category.CategoryName
                  aitem.Product.Price
               </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>
```







				Re	eport 1			
mm/dd/yyyy				<b>:::</b>				
mm/dd/yyyy				<b>:::</b>				
SEARCH								
COPY EXCEL	CSV I	PDF				Search	h:	
Customer First 1	Customer Last Name		oduct 1	Quantity	Price	Date From	<b>↑</b> ↓	Date To ↑↓
Aseel		ite	m 3	60.00	600	2/3/2022 1:39:23 A	M	3/30/2022 1:39:34 AM
Bayan		ite	m 5	40.00	1200			
Bayan		ite	m 6	20.00	600	3/26/2022 10:37:48 PM		4/13/2022 10:37:39 PM
lilas		ite	m2	50.00	500	7/8/2022 1:38:53 A	M	1/14/2022 1:39:08 AM
mohammad	ishaq	ite	m2	555.00	5550	1/1/2022 4:41:00 P	M	1/24/2022 4:42:00 PM
mohammad	ishaq	ite	m 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	↑ <b>ሖ Product Name</b>	↑	↑ 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 entrie	S		PREV 1	NEXT	

