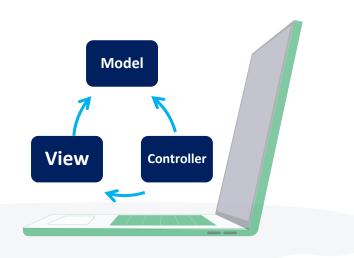


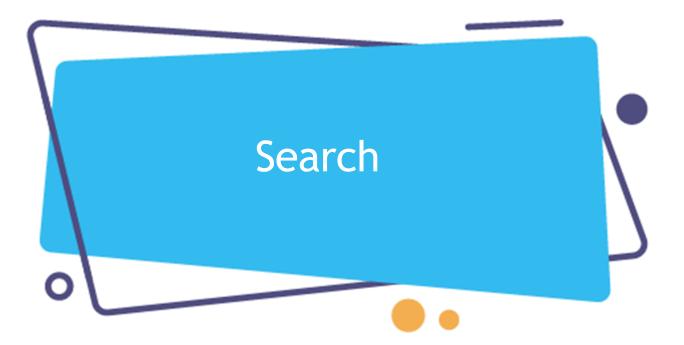
Chapter 1

- 1 Search
- DataTables
- 3 Reports











```
•••
```

```
[HttpGet]
public IActionResult Search()
{
var modelContext =
_context.ProductCustomers.Include(p =>
p.Customer).Include(p => p.Product).ToList();
return View(modelContext);
}
```



```
000
[HttpPost]
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);
```



```
000
else if (stratDate == null && endDate != null)
var result = await modelContext.Where(x =>
x.DateFrom.Value.Date == endDate).ToListAsync();
return View(result);
else if (stratDate != null && endDate == null)
```

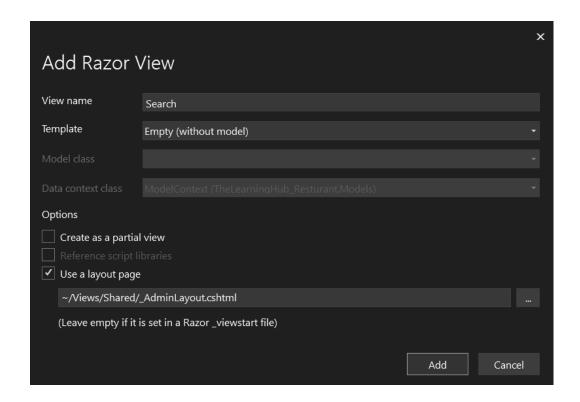


000

```
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>
```



Create a **Search** view



```
000
```

```
@model IEnumerable<ProductCustomer>
@{
ViewData["Title"] = "Search";
Layout = "~/Views/Shared/_AdminLayout.cshtml";
}
<div class="row">
<div class="col-6">
<form action="Search" method="post">
<input type="date" class="form-control"
name="stratDate" placeholder="Start Date">
```



```
000
<input type="date" class="form-control"</pre>
name="endDate" placeholder="End Date">
<button type="submit" class="btn btn-</pre>
dark">Search</button>
</form>
</div>
</div>
<div class="row">
<div class="col-10">
```



```
000
<thead>
Customer First Name 
Customer Last Name 
Product Name
Quantity
Price
Date From
Date To
</thead>
```



```
000
@foreach (var item in Model)
@Html.DisplayFor(modelItem => item.Customer.Fname)
@Html.DisplayFor(modelItem => item.Customer.Lname)
```



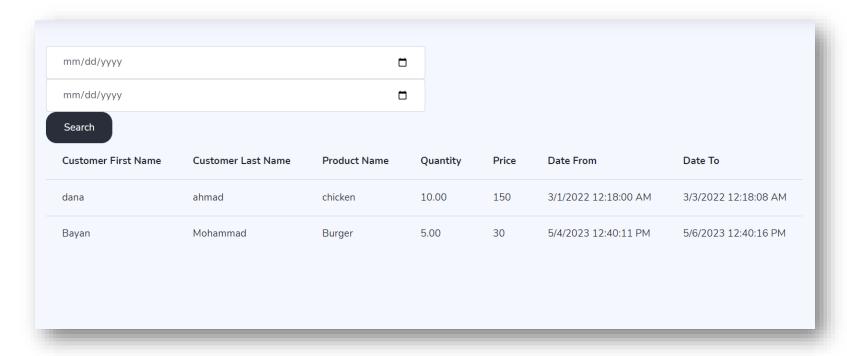
```
000
@Html.DisplayFor(modelItem => item.Product.Namee)
@Html.DisplayFor(modelItem => item.Quantity)
@(item.Quantity * item.Product.Price)
```



```
000
@Html.DisplayFor(modelItem => item.DateFrom)
@Html.DisplayFor(modelItem => item.DateTo)
</div>
</div>
```

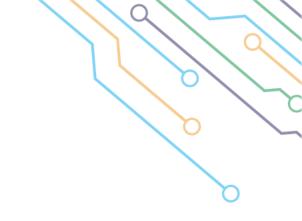


The Result

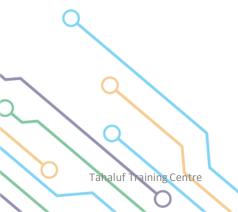








DataTables is a plug-in for the jQuery Javascript library. It's a powerful tool that adds a lot of advanced features to any HTML table such as Pagination, Instant search, and Multi-column ordering



In JoinTable view add the attribute Id = "example1" in the start tag of the table

000

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

```
<link
href="https://cdn.datatables.net/1.11.1/css/jquery.dataTa
bles.min.css" rel="stylesheet" />
<link
href="https://cdn.datatables.net/buttons/2.0.0/css/button
s.dataTables.min.css" rel="stylesheet" />
```





Add the following Scripts to the end of the JoinTable view

```
000
<script src="https://code.jquery.com/jquery-</pre>
3.5.1.js"></script>
<script
src="https://cdn.datatables.net/1.11.1/js/jquery.dataTa
bles.min.js" defer></script>
<script
src="https://cdn.datatables.net/buttons/2.0.0/js/dataTa
bles.buttons.min.js" defer></script>
<script
src="https://cdnjs.cloudflare.com/ajax/libs/jszip/3.1.3
/jszip.min.js"></script>
```



Add the following Scripts to the end of the JoinTable view

000

```
<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/button
s.html5.min.js" defer></script>
```

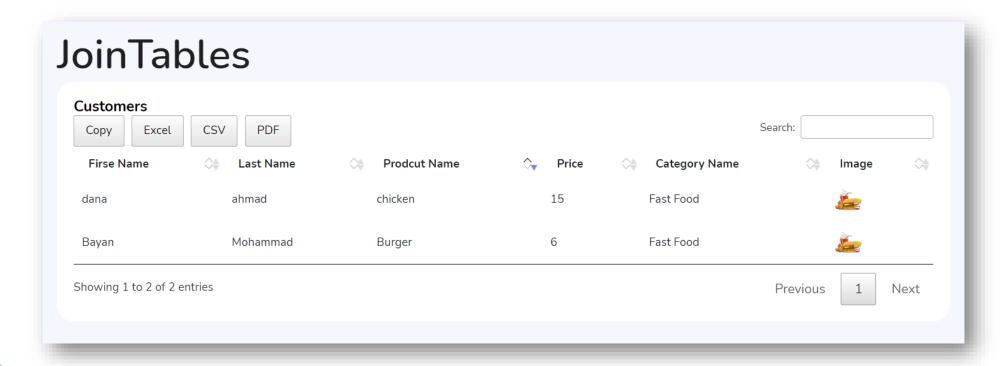


Add the following Scripts to the end of the JoinTable view

```
. . .
<script>
$(document).ready(function () {
$('#example1').DataTable({
dom: 'Bfrtip',
buttons: [
'copyHtml5',
'excelHtml5',
'csvHtml5',
'pdfHtml5'
}); });
</script>
```

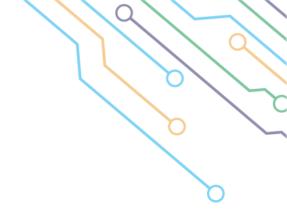


The Result









Exercise

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

Hint: Search, Tuple, DateTable, Join



```
•••
```

```
[HttpGet]
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
```



000

```
join p in products on pc.ProductId equals p.Id
join cat in categoreys on p.CategoryId equals cat.Id
select new JoinTables { 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);
```

000

```
ViewBag.TotalPrice = modelContext.Sum(x =>
x.Product.Price * x.Quantity);
var model3 = Tuple.Create<IEnumerable<JoinTables>,
IEnumerable<ProductCustomer>>(multiTable,
modelContext);
return View(model3);
```

```
...
```

```
[HttpPost]
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 JoinTables { 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)
{
```



```
000
ViewBag.TotalQuantity = modelContext.Sum(x =>
x.Quantity);
ViewBag.TotalPrice = modelContext.Sum(x =>
x.Product.Price * x.Quantity);
var model3 = Tuple.Create<IEnumerable<JoinTables>,
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<JoinTables>,
IEnumerable<ProductCustomer>>(multiTable, await
```

modelContext.Where(x => x.DateFrom.Value.Date ==
endDate).ToListAsync());
return View(model3);



```
000
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<JoinTables>,
IEnumerable<ProductCustomer>>(multiTable, await
modelContext.Where(x => x.DateFrom.Value.Date ==
```

000

Create Report action in the Admin controller.

```
stratDate).ToListAsync());
return View(model3);
}
else
{
ViewBag.TotalQuantity = modelContext.Where(x => x.DateFrom >= stratDate && x.DateFrom <= endDate).Sum(x => x.Quantity);
```

ViewBag.TotalPrice = modelContext.Where(x =>

endDate).Sum(x => x.Product.Price * x.Quantity);

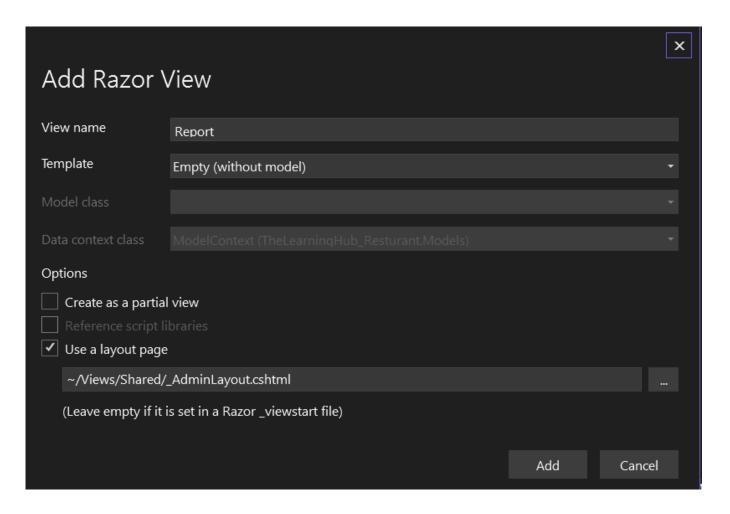
x.DateFrom >= stratDate && x.DateFrom <=



•••

```
var model3 = Tuple.Create<IEnumerable<JoinTables>,
IEnumerable<ProductCustomer>>(multiTable, await
modelContext.Where(x => x.DateFrom >= stratDate &&
x.DateFrom <= endDate).ToListAsync());
return View(model3);
}</pre>
```

Create a Report View





•••

```
@model Tuple<IEnumerable<JoinTables>,
IEnumerable<ProductCustomer>>

@{
    ViewData["Title"] = "Index";
    Layout = "~/Views/Shared/_AdminLayout.cshtml";
    }
    link
    href="https://cdn.datatables.net/1.11.1/css/jquery.dataTables.min.css" rel="stylesheet" />
    link
```



000

```
href="https://cdn.datatables.net/buttons/2.0.0/css/b
uttons.dataTables.min.css" rel="stylesheet" />
<div class="container">
<div class="p-3 mb-2 bg-dark text-white text-center</pre>
font-weight-bold">Report 1</div>
<div class="row">
<div class="col-6">
<form action="Report" method="post">
<input type="date" class="form-control"</pre>
```



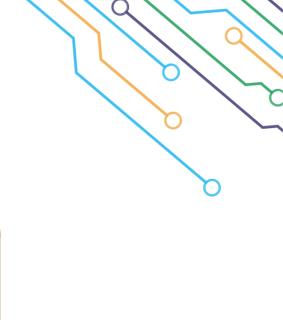


...

```
name="stratDate" placeholder="Start Date">
<input type="date" class="form-control"</pre>
name="endDate" placeholder="End Date">
<button type="submit" class="btn btn-</pre>
dark">Search</button>
</form>
</div>
</div>
<div class="row">
<div class="col-10">
<thead>
```



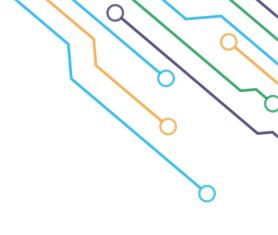
```
Customer First Name
Customer Last Name
Product Name
Quantity
```



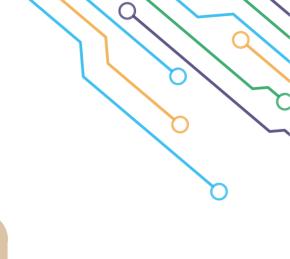


```
Price
Date From
Date To
</thead>
```

```
000
@foreach (var item in Model.Item2)
 @Html.DisplayFor(modelItem =>
 @Html.DisplayFor(modelItem =>
 @Html.DisplayFor(modelItem =>
 @Html.DisplayFor(modelItem =>
item.Quantity)
```



```
000
 @(item.Quantity * item.Product.Price)
 @Html.DisplayFor(modelItem =>
item.DateFrom)
 @Html.DisplayFor(modelItem => item.DateTo)
<tfoot>
Total Quantity
@ViewBag.TotalQuantity
```





```
•••
Total Price
@ViewBag.TotalPrice
</tfoot>
```

```
•••
</div>
</div>
<div class="p-3 mb-2 bg-dark text-white text-center</pre>
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
@item.Product.Price
}
```





The Learning **ub**

```
•••
</div>
</div>
</div>
<script src="https://code.jquery.com/jquery-</pre>
3.5.1.js"></script>
<script
src="https://cdn.datatables.net/1.11.1/js/jquery.dat
aTables.min.js" defer></script>
```





```
000
<script
src="https://cdn.datatables.net/buttons/2.0.0/js/dat
aTables.buttons.min.js" defer></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>
```



```
000
<script
src="https://cdn.datatables.net/buttons/2.0.0/js/but
tons.html5.min.js" defer></script>
<script>
$(document).ready(function () {
$('.example').DataTable({
dom: 'Bfrtip',
buttons: [
'copyHtml5',
'excelHtml5',
'csvHtml5',
'pdfHtml5']});});</script>
```



The Result

