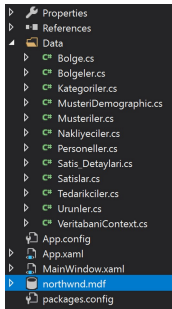# 9 - Data Binding (Veri Bağlama)

— Veri Bağlama

— Data Context

— Display Member Path


```xml
<Window x:Class="orn2018_DataBinding.MainWindow"
        xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
        xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
        xmlns:d="http://schemas.microsoft.com/expression/blend/2008"
        xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"
        xmlns:local="clr-namespace:orn2018_DataBinding"
        mc:Ignorable="d"
        Title="MainWindow" Height="450" Width="800" Loaded="Window_Loaded">
    <Grid>
        <DataGrid x:Name="dataGrid" Margin="10"/>
    </Grid>
</Window>
```

```csharp
public partial class MainWindow : Window
{
    public MainWindow()
    {
        InitializeComponent();
    }

    VeritabaniContext db = new VeritabaniContext();

    private void Window_Loaded(object sender, RoutedEventArgs e)
    {
        dataGrid.ItemsSource = db.Personellers.ToList();
    }
}
```
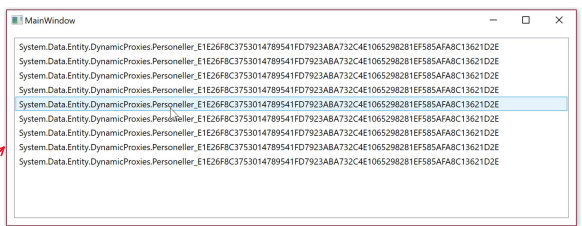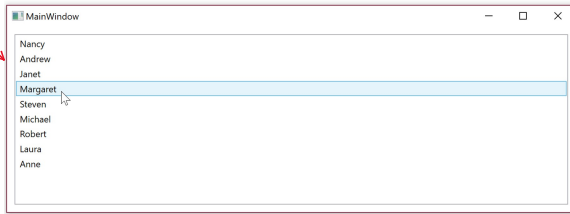


```csharp
private void Window_Loaded(object sender, RoutedEventArgs e)
{
    //dataGrid.ItemsSource = db.Personellers.ToList();
    listBox.ItemsSource = db.Personellers.ToList();
}
```
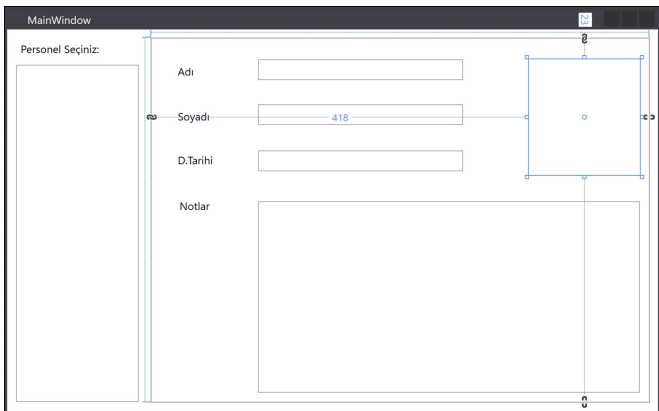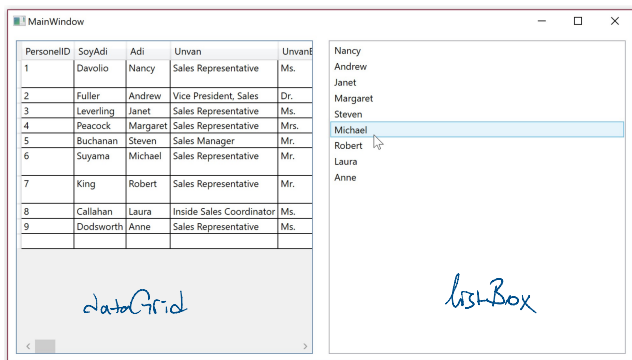
```xml
<Grid>
    <!--<DataGrid x:Name="dataGrid" Margin="10"/>-->
    <ListBox x:Name="listBox" Margin="10" />
</Grid>
```

```xml
<Grid>
    <!-- <DataGrid x:Name="dataGrid" Margin="10"/>-->
    <ListBox x:Name="listBox" DisplayMemberPath="Adi" Margin="10" />
</Grid>
```
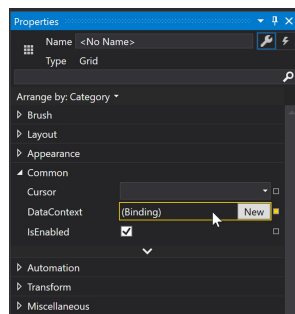


```csharp
private void Window_Loaded(object sender, RoutedEventArgs e)
{
    //dataGrid.ItemsSource = db.Personellers.ToList();
    //listBox.ItemsSource = db.Personellers.ToList();
    DataContext = db.Personellers.ToList();
}
```

```xml
<Grid>
    <Grid.ColumnDefinitions>
        <ColumnDefinition Width="1*"/>
        <ColumnDefinition Width="1*"/>
    </Grid.ColumnDefinitions>
    <DataGrid x:Name="dataGrid" ItemsSource="{Binding}" Margin="10" Grid.Column="0"/>
    <ListBox x:Name="listBox" ItemsSource="{Binding}" DisplayMemberPath="Adi" Margin="10" Grid.Column="1" />
</Grid>
```


dataGrid

listBox

Window width = 736

```xml
<Grid>
    <Label Content="Personel Seçiniz:" HorizontalAlignment="Left" Margin="10,8,0,0" VerticalAlignment="Top"/>
    <ListBox x:Name="listBox" ItemsSource="{Binding}" DisplayMemberPath="Adi" Margin="10,39,575,10.5" />
    <Grid Margin="160,10,10,10.5">
        <Label Content="Adi" HorizontalAlignment="Left" Margin="24,23,0,0" VerticalAlignment="Top"/>
        <Label Content="Soyadı" HorizontalAlignment="Left" Margin="24,73,0,0" VerticalAlignment="Top"/>
        <Label Content="D.Tarihi" HorizontalAlignment="Left" Margin="24,121,0,0" VerticalAlignment="Top"/>
        <Label Content="Notlar" HorizontalAlignment="Left" Margin="26,172,0,0" VerticalAlignment="Top"/>
        <TextBox HorizontalAlignment="Left" Height="23" Margin="118,23,0,0" TextWrapping="Wrap" Text="" VerticalAlignment="Top" Width="227"/>
        <TextBox HorizontalAlignment="Left" Height="23" Margin="118,73,0,0" TextWrapping="Wrap" Text="" VerticalAlignment="Top" Width="227"/>
        <TextBox HorizontalAlignment="Left" Height="23" Margin="118,124,0,0" TextWrapping="Wrap" Text="" VerticalAlignment="Top" Width="227"/>
        <TextBox HorizontalAlignment="Left" Height="212" Margin="118,180,0,0" TextWrapping="Wrap" Text="" VerticalAlignment="Top" Width="423"/>
        <Image HorizontalAlignment="Left" Height="128" Margin="418,23,0,0" VerticalAlignment="Top" Width="123"/>
    </Grid>
</Grid>
```

```xml
<Grid>
    <Label Content="Personel Seçiniz:" HorizontalAlignment="Left" Margin="10,8,0,0" VerticalAlignment="Top"/>
    <ListBox x:Name="listBox" ItemsSource="{Binding}" DisplayMemberPath="Adi" Margin="10,39,575,10.5" />
    <Grid Margin="160,10,10,10.5" DataContext="{Binding SelectedItem, ElementName=listBox}">
        <Label Content="Adı" HorizontalAlignment="Left" Margin="24,23,0,0" VerticalAlignment="Top"/>
        <Label Content="Soyadı" HorizontalAlignment="Left" Margin="24,73,0,0" VerticalAlignment="Top"/>
        <Label Content="D.Tarihi" HorizontalAlignment="Left" Margin="24,121,0,0" VerticalAlignment="Top"/>
        <Label Content="Notlar" HorizontalAlignment="Left" Margin="26,172,0,0" VerticalAlignment="Top"/>
        <TextBox HorizontalAlignment="Left" Height="23" Margin="118,23,0,0" TextWrapping="Wrap" Text="" VerticalAlignment="Top" Width="227"/>
        <TextBox HorizontalAlignment="Left" Height="23" Margin="118,73,0,0" TextWrapping="Wrap" Text="" VerticalAlignment="Top" Width="227"/>
        <TextBox HorizontalAlignment="Left" Height="23" Margin="118,124,0,0" TextWrapping="Wrap" Text="" VerticalAlignment="Top" Width="227"/>
        <TextBox HorizontalAlignment="Left" Height="212" Margin="118,180,0,0" TextWrapping="Wrap" Text="" VerticalAlignment="Top" Width="423"/>
        <Image HorizontalAlignment="Left" Height="128" Margin="418,23,0,0" VerticalAlignment="Top" Width="123"/>
    </Grid>
</Grid>
```

Elimizle de yazabiliriz.

```
DateTime dt = new DateTime(2008, 3, 9, 16, 5, 7, 123);

String.Format("{0:y yy yyy yyyy}", dt);  // "8 08 008 2008"    year
String.Format("{0:M MM MMM MMMM}", dt);  // "3 03 Mar March"   month
String.Format("{0:d dd ddd dddd}", dt);  // "9 09 Sun Sunday"  day
String.Format("{0:h hh H HH}",     dt);  // "4 04 16 16"       hour 12/24
String.Format("{0:m mm}",          dt);  // "5 05"             minute
String.Format("{0:s ss}",          dt);  // "7 07"             second
String.Format("{0:f ff fff ffff}", dt);  // "1 12 123 1230"    sec.fraction
String.Format("{0:F FF FFF FFFF}", dt);  // "1 12 123 123"     without zeroes
String.Format("{0:t tt}",          dt);  // "P PM"             A.M. or P.M.
String.Format("{0:z zz zzz}",      dt);  // "-6 -06 -06:00"    time zone
```

Just use:

```xml
<TextBlock Text="{Binding Date, StringFormat=\{0:d\}}" />
```

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add a comment

If you want add a string with the value use this:

```xml
<TextBlock Text="{Binding Date, StringFormat= 'Date : {0:d}'}" />
```

```xml
<ListBox ItemsSource="{StaticResource MyData}">

  <ListBox.ItemTemplate>
    <DataTemplate>
      <TextBlock>
        <TextBlock.Text>
          <MultiBinding StringFormat="{}{0} -- Now only {1:C}!">
            <Binding Path="Description"/>
            <Binding Path="Price"/>
          </MultiBinding>
        </TextBlock.Text>
      </TextBlock>
    </DataTemplate>
  </ListBox.ItemTemplate>
</ListBox>
```