# Introduction to Data Annotations

<https://www.entityframeworktutorial.net/code-first/dataannotation-in-code-first.aspx>

**Note:** Data annotations only give you a subset of configuration options. [Fluent API](https://www.entityframeworktutorial.net/code-first/fluent-api-in-code-first.aspx) provides a full set of configuration options available in Code-First.

.NET attributes which can be applied on an entity class or properties to override default conventions in EF 6 and EF Core.

System.ComponentModel.DataAnnotations and

System.ComponentModel.DataAnnotations.Schema

public class Notes

{

public int BlogId { get; set; }

public string Url { get; set; }

}

[Table(“Customer\_Notes”]

public class Notes

{

[Column("Note\_id")]

public int NoteId { get; set; }

[Column(TypeName = "varchar(200)")]

[Comment("The URL of the web page the note is about")]

public string Url { get; set; }

[MaxLength(500)]

[Required]

public string NoteText { get; set; }

[NotMapped]

public DateTime LoadedFromDatabase { get; set; }

[Precision(14, 2)] // decimal(14,2)

public decimal Score { get; set; }

[Precision(3)] // precision 3 will cause a column of type datetime2(3)

public DateTime LastUpdated { get; set; }

}

[Table(“OrderMaster”)]

[Column (string name, Properties:[Order = int],[TypeName = string])

public class HumanBase

{

[Column(Order = 0)]

public int Id { get; set; }

}

public class PersonBase : HumanBase

{

[Column(Order = 2)]

public string LastName { get; set; }

[Column(Order = 1)]

public string FirstName { get; set; }

}

public class Employee : PersonBase

{

public string Department { get; set; }

public decimal AnnualSalary { get; set; }

}