Value Conversions

Entity Framework 2.1.0+

What?

What?

"Value converters allow property values to be converted when reading from or writing to the database. This conversion can be from one value to another of the same type (for example, encrypting strings) or from a value of one type to a value of another type (for example, converting enum values to and from strings in the database.)"

How?

How?

```
Сору
C#
public class Rider
    public int Id { get; set; }
    public EquineBeast Mount { get; set; }
public enum EquineBeast
    Donkey,
   Mule,
   Horse,
    Unicorn
```

How?

Why?

You can tell Entity Framework how to handle custom types!

NodaTime

(Subtle link back to Jon Skeet at the last event)

NodaTime <-> Base Types

- Duration
- Instant
- LocalDateTime
- LocalDate
- LocalTime
- OffsetDateTime
- Offset
- ZonedDateTime

- TimeSpan
- Long (ticks)
- DateTime
- DateTime
- Long (ticks since midnight)
- DateTimeOffset
- Long (nanoseconds)
- DateTimeOffset

Proof of Concept

https://github.com/tomlane/NodaTime.EntityFrameworkCore.Conversions

Limitations

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- NULL can not be converted.
- There is no way to map a property to multiple columns or vice-versa.
- Some conversions may impact Entity Framework generating SQL statements. Warnings will be logged in these cases.

The Docs

https://docs.microsoft.com/en-us/ef/core/modeling/value-conversions

Bonus Unrelated Thing

Visual Studio Code Log (Language Mode)

Thanks!

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@neverontarget

