Purpose 🡪 Migrations 🡪 Code First, push model changes to database

1. Directly – part of development process
2. Batched – Generate Script to update database with release

Create new Class Library Project (C#, .net 6, entity framework)

Install needed packages:

PM> Install-Package Microsoft.EntityFrameworkCore.Tools

PM> Install-Package Microsoft.EntityFrameworkCore.SqlServer

Demo:

Create Simple Order class

Create DbContext derived class

* DbContext is the primary class that is responsible for interacting with the database
* Migrations require design time instance – parameterless constructor
* Override OnConfigure

Add-Migration InitialCreate

Update-Database

Revise the Order Class

Add OrderStatus, OrderDate

Add-Migration ReviseOrder-[details]

Update-Database

Override OnModelCreating to exclude entities

protected override void OnModelCreating(ModelBuilder modelBuilder)

{

modelBuilder.Entity<Part>()

.ToTable("Parts", t => t.ExcludeFromMigrations());

}

\*\* note: can also do this with annotations – see next section

[NotMapped]

public class BlogMetadata

{

public DateTime LoadedFromDatabase { get; set; }

}