# Managing Migrations

* Review File Generated
* Output Control
* Remove Migration
* Customization
* Listing Migrations
* Resetting Migrations

**Review Files in Migrations folder**

* Note Timestamp prefix
* \*.cs – apply migration (up) or revert (down)
* \*.Designer.cs – EF generated
* Snapshot.cs – snapshots of current model

**Controlling the Output folder & Namespace**

Add-Migration InitialCreate -OutputDir Your\Directory -Namespace my.new.space

add-migration NewOutputFolderTest -outputDir Migr/NewOne -Namespace xcalibre

**Removing a Migration**

Remove-Migration

## Customization

Rename CustomerID to CustomerName, add PackageSerial

* Rename a column causes drop and create to be generated in migration

Add-Migration CustomerIdNamePackageSerial

Fix Migration

* Replace generated code

migrationBuilder.RenameColumn(

name: "Name",

table: " Orders",

newName: "FullName");

Update-Database

Split PackageSerial to PackagePrefix and PackageIndex

Add-Migration SplitPackageSerial

**Adding RAW Sql**

Changing a PackageSerial to a PackagePrefix and PackageIndex

UP

migrationBuilder.AddColumn<string>(

name: "PackageType",

table: "Orders",

nullable: true);

migrationBuilder.AddColumn<string>(

name: "PackageSequence",

table: "Orders",

nullable: true);

migrationBuilder.Sql(

@"

UPDATE Orders

SET PackageType=SUBSTRING(PackageSerial, 1, 4);

");

migrationBuilder.Sql(

@"

UPDATE Orders

SET PackageSequence= SUBSTRING(PackageSerial, 5, LEN(PackageSerial) );

");

migrationBuilder.DropColumn(

name: "PackageSerial",

table: "Orders");

DOWN

migrationBuilder.AddColumn<string>(

name: "PackageSerial",

table: "Orders",

type: "nvarchar(max)",

nullable: false,

defaultValue: "");

migrationBuilder.Sql(

@"

UPDATE Orders

SET PackageSerial= PackageType + PackageSequence;

");

migrationBuilder.DropColumn(

name: "PackageType",

table: "Orders");

migrationBuilder.DropColumn(

name: "PackageSequence",

table: "Orders");

**Add Migration without changes**

Add-Migration CustomChanges

Edit raw migration file (blank) add:

UP

migrationBuilder.Sql(

@"

EXEC ('CREATE PROCEDURE getFullName

@LastName nvarchar(50),

@FirstName nvarchar(50)

AS

RETURN @LastName + @FirstName;')");

DOWN

migrationBuilder.Sql(

@"

EXEC (Drop PROCEDURE getFullName)");

**Listing Migrations**

Get-Migration

**Resetting Migrations**

Delete migrations folder,

Create migration and generate sql script for it (see next video)

Delete content of the migrations history table

Add single row indictating 1st migration has been applied