Command Line Interface Commands for Migrations

Include="Microsoft.EntityFrameworkCore.Tools.DotNet"

Version="2.0.0"

/> under <ItemGroup> node by editing your .NET Core project's .csproj file.

Open command prompt and navigate to your project's root folder and enter dotnet ef - help to list EF Core commands, as shown below.

```
C:> dotnet ef --help
Entity Framework Core .NET Command Line Tools 2.0.0-rtm-26452
Usage: dotnet ef [options] [command]
Options:
  --version
                   Show version information
  -h|--help
                   Show help information
  -v|--verbose
                   Show verbose output.
  --no-color
                   Don't colorize output.
  --prefix-output Prefix output with level.
Commands:
  database
              Commands to manage the database.
  dbcontext
              Commands to manage DbContext types.
  migrations Commands to manage migrations.
Use "dotnet ef [command] --help" for more information about a command.
```

As you can see above, there are three main EF commands available: database, dbcontext and migrations. The following table lists all EF commands and sub commands.

Command	Sub Commands	Usage
Database	drop	Drops the database.
	<u>update</u>	Updates the database to a specified migration.
DbContext	info	Gets information about a DbContext type.
	list	Lists available DbContext types.
	scaffold	Scaffolds a DbContext and entity types for a database.
Migration	add	Adds a new migration.
	list	Lists available migrations.
	<u>remove</u>	Removes the last migration.
	script:	Generates a SQL script from migrations.

Let's see available options for each command.



Database Drop

> dotnet ef database drop

Usage: dotnet ef database drop [options] Options: -f|--force Don't confirm. Show which database would be dropped, but don't drop it. --dry-run -c|--context <DBCONTEXT> The DbContext to use. The project to use. -p|--project <PROJECT> -s|--startup-project <PROJECT> The startup project to use. The target framework. --framework <FRAMEWORK> --configuration <CONFIGURATION> The configuration to use. --runtime <RUNTIME_IDENTIFIER> The runtime to use. --msbuildprojectextensionspath <PATH> The MSBuild project extensions path. Defaults to "obj". --no-build Don't build the project. Only use this when the build is up-to-date.



Database Update

> dotnet ef database update

```
Usage: dotnet ef database update [arguments] [options]
Arguments:
  <MIGRATION> The target migration. If '0', all migrations will be reverted. De
faults to the last migration.
Options:
 -c|--context <DBCONTEXT>
                                         The DbContext to use.
 -p|--project <PROJECT>
                                         The project to use.
 -s|--startup-project <PROJECT>
                                         The startup project to use.
 --framework <FRAMEWORK>
                                         The target framework.
 --configuration <CONFIGURATION>
                                         The configuration to use.
 --runtime <RUNTIME IDENTIFIER>
                                         The runtime to use.
 --msbuildprojectextensionspath <PATH>
                                         The MSBuild project extensions path. Defaults to "obj".
  --no-build
                                         Don't build the project. Only use this when
                                          the build is up-to-date.
```



DbContext Info

> dotnet ef dbcontext info

```
Usage: dotnet ef dbcontext info [options]
Options:
                                          Show JSON output.
  --json
  -c|--context <DBCONTEXT>
                                          The DbContext to use.
  -p|--project <PROJECT>
                                          The project to use.
  -s|--startup-project <PROJECT>
                                          The startup project to use.
  --framework <FRAMEWORK>
                                          The target framework.
  --configuration <CONFIGURATION>
                                          The configuration to use.
  --runtime <RUNTIME IDENTIFIER>
                                          The runtime to use.
  --msbuildprojectextensionspath <PATH>
                                         The MSBuild project extensions path. Defaults to "obj".
  --no-build
                                          Don't build the project. Only use this
                                          when the build is up-to-date.
```

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DbContext List

> dotnet ef dbcontext list

Usage: dotnet ef dbcontext list [options] Options: --json Show JSON output. -p|--project <PROJECT> The project to use. -s|--startup-project <PROJECT> The startup project to use. --framework <FRAMEWORK> The target framework. --configuration <CONFIGURATION> The configuration to use. --runtime <RUNTIME IDENTIFIER> The runtime to use. The MSBuild project extensions path. Defaults to "obj". --msbuildprojectextensionspath <PATH> --no-build Don't build the project. Only use this when the build is up-to-date.



DbContext Scaffold

> dotnet ef dbcontext scaffold

```
Usage: dotnet ef dbcontext scaffold [arguments] [options]
Arguments:
  <CONNECTION>
                The connection string to the database.
                The provider to use. (E.g. Microsoft.EntityFrameworkCore.SqlServ
  <PROVIDER>
er)
Options:
  -d|--data-annotations
                                          Use attributes to configure the model (
where possible). If omitted, only the fluent API is used.
  -c|--context <NAME>
                                          The name of the DbContext.
  -f|--force
                                          Overwrite existing files.
  -o|--output-dir <PATH>
                                          The directory to put files in. Paths ar
e relative to the project directory.
  --schema <SCHEMA NAME>...
                                          The schemas of tables to generate entit
y types for.
  -t|--table >TABLE NAME<...
                                          The tables to generate entity types for.
  --use-database-names
                                          Use table and column names directly from the database.
  --ison
                                          Show JSON output.
  -p|--project <PROJECT>
                                          The project to use.
  -s|--startup-project <PROJECT>
                                          The startup project to use.
  --framework <FRAMEWORK>
                                          The target framework.
  --configuration <CONFIGURATION>
                                          The configuration to use.
  --runtime <RUNTIME IDENTIFIER>
                                          The runtime to use.
  --msbuildprojectextensionspath <PATH>
                                          The MSBuild project extensions path. Defaults to "obj".
                                          Don't build the project. Only use this
  --no-build
                                          when the build is up-to-date.
```



Add

> dotnet ef migrations add

```
Usage: dotnet ef migrations add [arguments] [options]
  <NAME> The name of the migration.
Options:
 -o|--output-dir <PATH>
                                          The directory (and sub-namespace) to us
e. Paths are relative to the project directory. Defaults to "Migrations".
                                          Show JSON output.
  --json
 -c|--context <DBCONTEXT>
                                          The DbContext to use.
 -p|--project <PROJECT>
                                          The project to use.
 -s|--startup-project <PROJECT>
                                          The startup project to use.
 --framework <FRAMEWORK>
                                          The target framework.
 --configuration <CONFIGURATION>
                                         The configuration to use.
 --runtime <RUNTIME IDENTIFIER>
                                          The runtime to use.
 --msbuildprojectextensionspath <PATH>
                                         The MSBuild project extensions path. Defaults to "obj".
 --no-build
                                          Don't build the project. Only use this
                                          when the build is up-to-date.
```

List

> dotnet ef migrations list

```
Usage: dotnet ef migrations list [options]
Options:
                                          Show JSON output.
  --json
                                          The DbContext to use.
  -c|--context <DBCONTEXT>
  -p|--project <PROJECT>
                                          The project to use.
  -s|--startup-project <PROJECT>
                                          The startup project to use.
  --framework <FRAMEWORK>
                                          The target framework.
                                          The configuration to use.
  --configuration <CONFIGURATION>
  --runtime <RUNTIME IDENTIFIER>
                                          The runtime to use.
  --msbuildprojectextensionspath <PATH>
                                          The MSBuild project extensions path. Defaults to "obj".
  --no-build
                                          Don't build the project. Only use this
                                          when the build is up-to-date.
```

Remove

> dotnet ef migrations remove

```
Usage: dotnet ef migrations remove [options]
Options:
 -f|--force
                                          Don't check to see if the migration has
 been applied to the database.
                                          Show JSON output.
 --json
 -c|--context <DBCONTEXT>
                                          The DbContext to use.
 -p|--project <PROJECT>
                                          The project to use.
 -s|--startup-project <PROJECT>
                                          The startup project to use.
 --framework <FRAMEWORK>
                                          The target framework.
 --configuration <CONFIGURATION>
                                          The configuration to use.
  --runtime <RUNTIME IDENTIFIER>
                                          The runtime to use.
  --msbuildprojectextensionspath <PATH>
                                          The MSBuild project extensions path. Defaults to "obj".
  --no-build
                                          Don't build the project. Only use this
                                          when the build is up-to-date.
```

Script

> dotnet ef migrations script

```
Usage: dotnet ef migrations script [arguments] [options]
Arguments:
          The starting migration. Defaults to '0' (the initial database).
 <FROM>
          The ending migration. Defaults to the last migration.
 <T0>
Options:
 -o|--output <FILE>
                                          The file to write the result to.
 -i|--idempotent
                                          Generate a script that can be used on a
 database at any migration.
 -c|--context <DBCONTEXT>
                                          The DbContext to use.
 -p|--project <PROJECT>
                                          The project to use.
 -s|--startup-project <PROJECT>
                                          The startup project to use.
 --framework <FRAMEWORK>
                                          The target framework.
 --configuration <CONFIGURATION>
                                          The configuration to use.
                                          The runtime to use.
 --runtime <RUNTIME_IDENTIFIER>
  --msbuildprojectextensionspath <PATH>
                                          The MSBuild project extensions path. Defaults to "obj".
  --no-build
                                          Don't build the project. Only use this
                                          when the build is up-to-date.
```