

Improve Entity Framework Performance





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Bulk Update



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< Previous

Home

Command Line Interface Commands for Migrations

Use .NET Core Command List Interface to execute entity framework core commands. To use .NET CLI, add `<DotNetCliToolReference 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.
	update	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.
Migrations	add	Adds a new migration.
	list	Lists available migrations.
	remove	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.
  --dry-run                 Show which database would be dropped, but don't drop it.
  -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.
```

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. Defaults to the last migration.

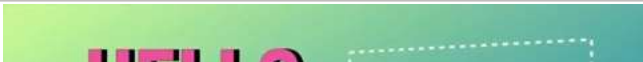
Options:
  -c|--context <DBCONTEXT> The DbContext to use.
  -p|--project <PROJECT>   The project to use.
  -s|--startup-project <PROJECT> The startup project to use.
  --framework <FRAMEWORK> The target framework.
  --configuration <CONFIGURATION> The configuration to use.
  --runtime <RUNTIME_IDENTIFIER> 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:
  --json                Show JSON output.
  -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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7 Apt Commands...
Here are the must-know

DbContext List

> dotnet ef dbcont

Usage: dotnet ef dbcont

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.
 --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 Scaffold

> dotnet ef dbcontext scaffold

Usage: dotnet ef dbcontext scaffold [arguments] [options]

Arguments:

<CONNECTION> The connection string to the database.
 <PROVIDER> The provider to use. (E.g. Microsoft.EntityFrameworkCore.SqlServer)

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 are relative to the project directory.
 --schema <SCHEMA_NAME>... The schemas of tables to generate entity 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.
 --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.
 --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.

Add

> dotnet ef migrations add

Usage: dotnet ef migrations add [arguments] [options]

Arguments:

<NAME> The name of the migration.

Options:

-o|--output-dir <PATH> The directory (and sub-namespace) to use. Paths are relative to the project directory. Defaults to "Migrations".
 --json Show JSON output.
 -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:

--json	Show JSON output.
-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.

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.
--json	Show JSON output.
-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:

<FROM> The starting migration. Defaults to '0' (the initial database).
 <TO> The ending migration. Defaults to the last migration.

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.
--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.

[< Previous](#)

[Home](#)

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