EF Core 8.0 Guided Hands-On Exercises
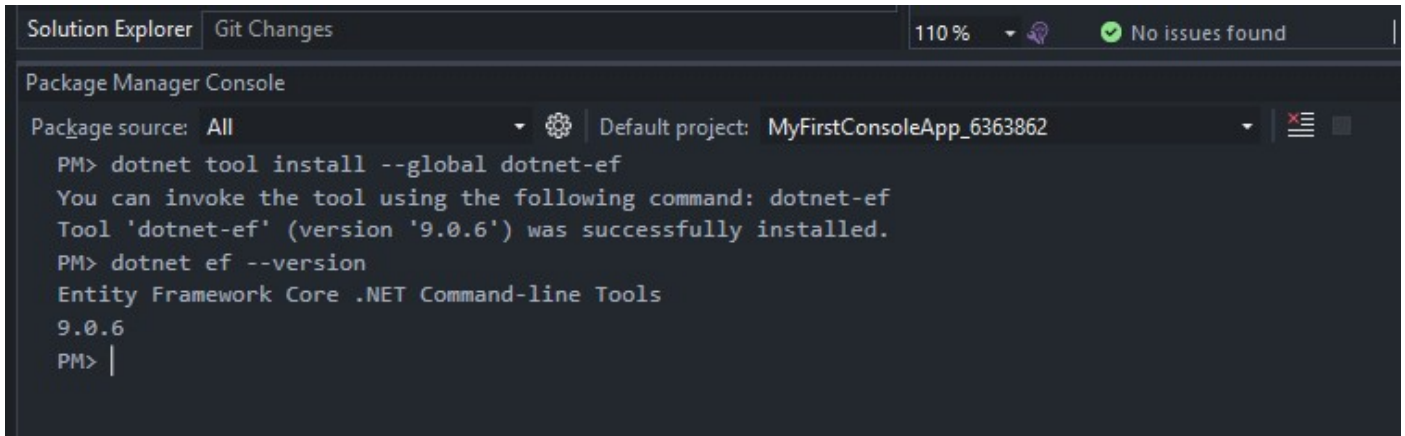
Lab 3: Using EF Core CLI to Create and Apply Migrations

1. Install EF Core CLI (if not already):

```
Solution Explorer   Git Changes                          110%   ▾ ⚛    ● No issues found

Package Manager Console

Package source: All                    ▾ ⚙   Default project: MyFirstConsoleApp_6363862          ▾  ×≣ ▪
    PM> dotnet tool install --global dotnet-ef
    You can invoke the tool using the following command: dotnet-ef
    Tool 'dotnet-ef' (version '9.0.6') was successfully installed.
    PM> dotnet ef --version
    Entity Framework Core .NET Command-line Tools
    9.0.6
    PM> |
```
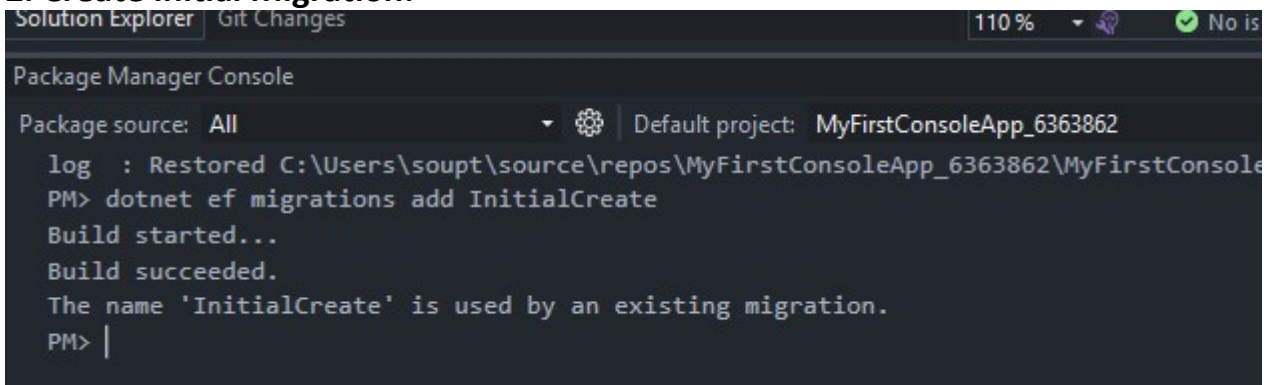
2. Create Initial Migration:

```
Solution Explorer   Git Changes                          110%   ▾ ⚛    ● No is

Package Manager Console

Package source: All                    ▾ ⚙   Default project: MyFirstConsoleApp_6363862
    log  : Restored C:\Users\soupt\source\repos\MyFirstConsoleApp_6363862\MyFirstConsole
    PM> dotnet ef migrations add InitialCreate
    Build started...
    Build succeeded.
    The name 'InitialCreate' is used by an existing migration.
    PM> |
```
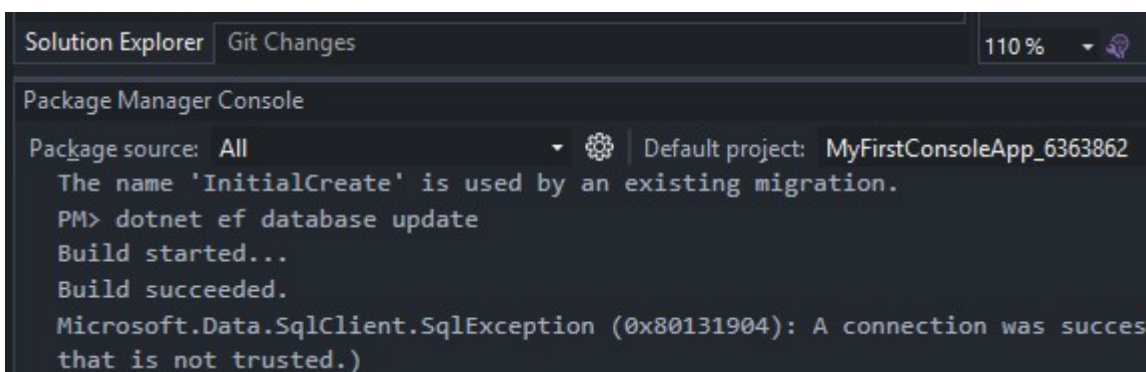
3. Apply Migration to Create Database:

```
Solution Explorer   Git Changes                          110%   ▾ ⚛

Package Manager Console

Package source: All                    ▾ ⚙   Default project: MyFirstConsoleApp_6363862
    The name 'InitialCreate' is used by an existing migration.
    PM> dotnet ef database update
    Build started...
    Build succeeded.
    Microsoft.Data.SqlClient.SqlException (0x80131904): A connection was succes
    that is not trusted.)
```

5. Verify in SQL Server:
6.

Object Explorer

Connect ▾ ⚡ ✗⚡ ■ ▼ ⟳ ⌁

- localhost (SQL Server 16.0.1000.6 - 3201_Lappu\soupt)
  - Databases
    - System Databases
    - Database Snapshots
    - DOTNETFSE
    - RetailDb
      - Database Diagrams
      - Tables
      - Views
      - External Resources
      - Synonyms
      - Programmability
      - Query Store
      - Service Broker
      - Storage
      - Security

SQLQuery1.sq...U\soupt (54))* ⊣ ✕

```
1
2    use RetailDb;
3
4    SELECT * FROM Categories;
5    select * from products;
```

113 % ▾   ● No issues found

▦ Results ▤ Messages

	Id	Name	Price	CategoryId
1	1	Laptop	75000.00	1
2	2	Rice Bag	1200.00	2

SQLQuery1.sq...U\soupt (54))* ⊣ ✕

```
1
2    use RetailDb;
3
4    SELECT * FROM Categories;
5    select * from products;
```

113 % ▾   ● No issues found

▦ Results ▤ Messages

	Id	Name
1	1	Electronics
2	2	Groceries