Entity Framework Core – Week 3

(Superset ID: 6364376)

LAB 1: Understanding ORM with a Retail Inventory System


```
Command Prompt
Microsoft Windows [Version 10.0.19045.5965]
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C:\Users\adars>dotnet new console -n RetailInventory
The template "Console App" was created successfully.

Processing post-creation actions...
Restoring C:\Users\adars\RetailInventory\RetailInventory.csproj:
Restore succeeded.


C:\Users\adars>cd RetailInventory

C:\Users\adars\RetailInventory>dotnet add package Microsoft.EntityFrameworkCore.SqlServer

Build succeeded in 0.4s
info : X.509 certificate chain validation will use the default trust store selected by .NET for code signing.
info : X.509 certificate chain validation will use the default trust store selected by .NET for timestamping.
info : Adding PackageReference for package 'Microsoft.EntityFrameworkCore.SqlServer' into project 'C:\Users\adar
```
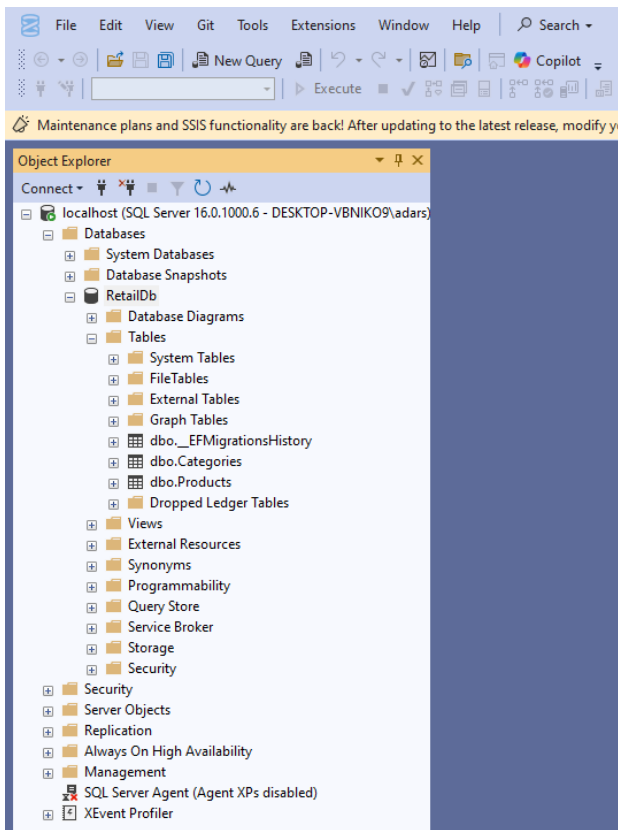


```
Command Prompt
C:\Users\adars\RetailInventory>dotnet add package Microsoft.EntityFrameworkCore.Design

Build succeeded in 0.4s
info : X.509 certificate chain validation will use the default trust store selected by .NET for code signing.
info : X.509 certificate chain validation will use the default trust store selected by .NET for timestamping.
info : Adding PackageReference for package 'Microsoft.EntityFrameworkCore.Design' into project 'C:\Users\adars\R
```
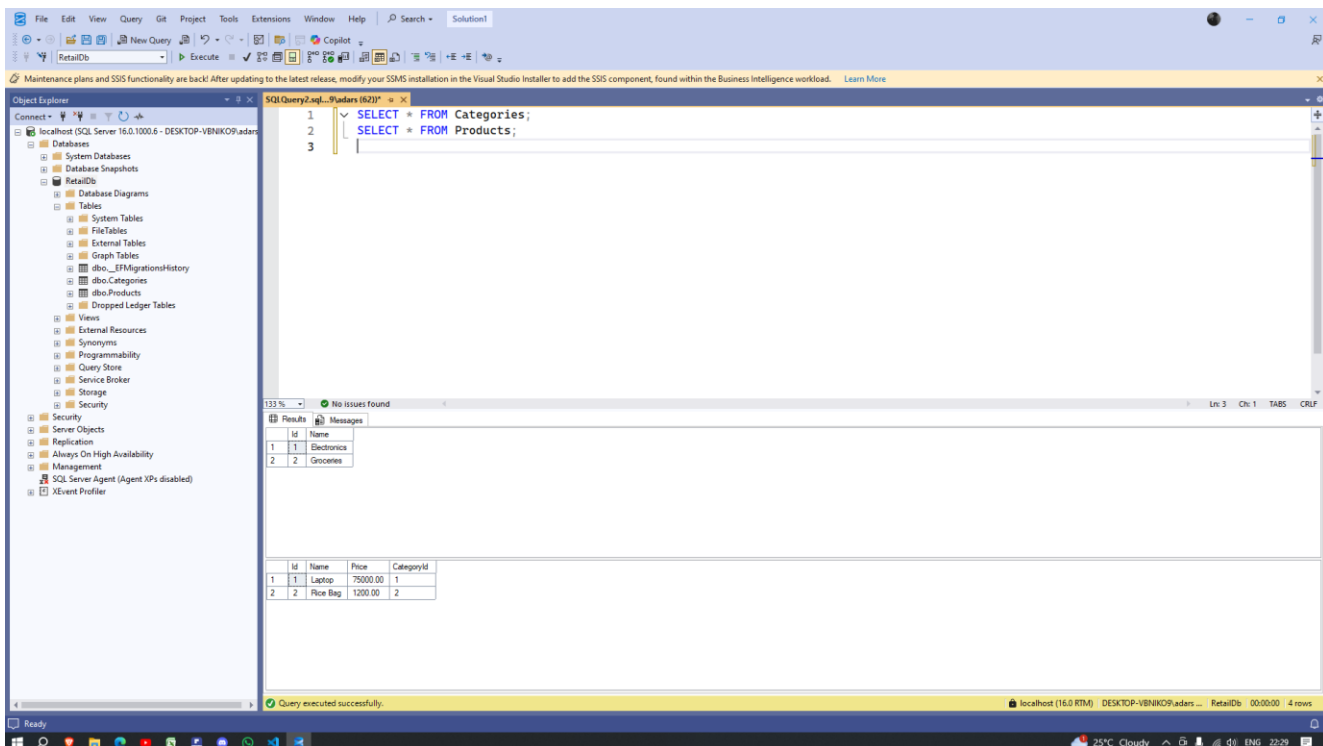
LAB 2: Setting Up the Database Context for a Retail Store

```
RetailInventory/
├── Models/
│   ├── Category.cs
│   └── Product.cs
├── AppDbContext.cs
├── Program.cs
├── RetailInventory.csproj
```

LAB 3: Using EF Core CLI to Create and Apply Migrations

LAB 4: Inserting Initial Data into the Database

LAB 5: Retrieving Data from the Database

```
Retrieving all products...
Laptop - ₹75000.00
Rice Bag - ₹1200.00

Finding product by ID (1)...
Found: Laptop

Finding first expensive product (> ₹50,000)...
Expensive Product: Laptop
PS C:\Users\adars\RetailInventory>
```