**WEEK 3**

**(ENTITY FRAMEWORK CORE 8.0)**

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**TOPIC: EF CORE**

**EXERCISE 4: Inserting Initial Data into the Database**

**Program.cs**

using EFCoreRetailStore.Models;

using Microsoft.EntityFrameworkCore;

class Program

{

static async Task Main(string[] args)

{

using var context = new AppDbContext();

// Make sure the database is created (in case migration wasn't run)

await context.Database.EnsureCreatedAsync();

// Avoid inserting duplicates

if (await context.Products.AnyAsync())

{

Console.WriteLine("Data already exists in the database.");

return;

}

// Create categories

var electronics = new Category { Name = "Electronics" };

var groceries = new Category { Name = "Groceries" };

// Add categories to the database

await context.Categories.AddRangeAsync(electronics, groceries);

// Create products and link to categories

var product1 = new Product { Name = "Laptop", Price = 75000, Category = electronics };

var product2 = new Product { Name = "Rice Bag", Price = 1200, Category = groceries };

// Add products to the database

await context.Products.AddRangeAsync(product1, product2);

// Save all changes

await context.SaveChangesAsync();

Console.WriteLine("Initial data inserted successfully.");

}

}

**Category.cs**

namespace EFCoreRetailStore.Models;

public class Category

{

public int Id { get; set; }

public string Name { get; set; }

public List<Product> Products { get; set; } = new();

}

**Product.cs**

namespace EFCoreRetailStore.Models;

public class Product

{

public int Id { get; set; }

public string Name { get; set; }

public decimal Price { get; set; }

public int CategoryId { get; set; }

public Category Category { get; set; }

}

**AppDbContext.cs**

using EFCoreRetailStore.Models;

using Microsoft.EntityFrameworkCore;

using System.Collections.Generic;

public class AppDbContext : DbContext

{

public DbSet<Product> Products { get; set; }

public DbSet<Category> Categories { get; set; }

protected override void OnConfiguring(DbContextOptionsBuilder optionsBuilder)

{

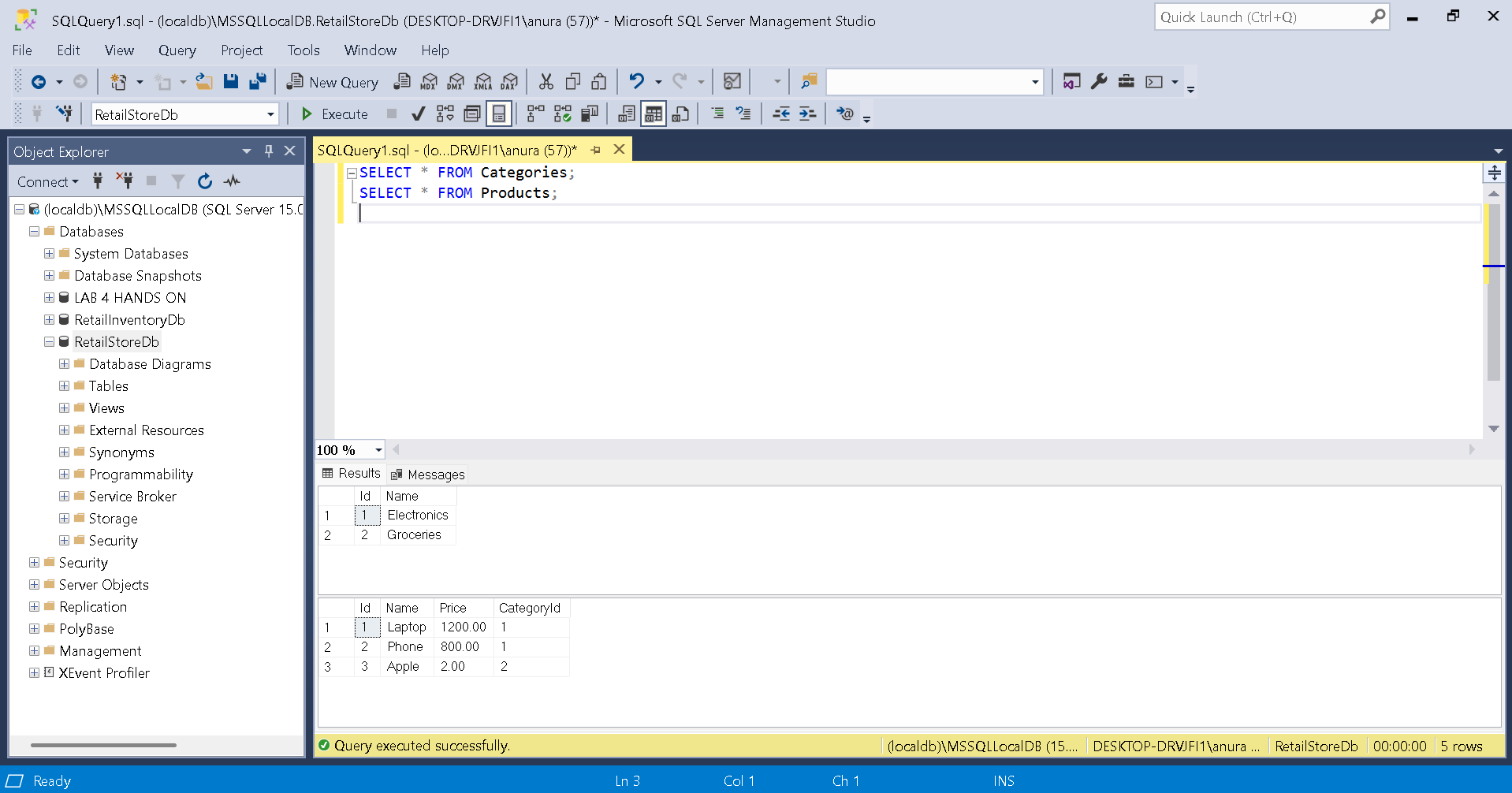
// Use LocalDB or your SQL Server connection string

optionsBuilder.UseSqlServer("Server=(localdb)\\MSSQLLocalDB;Database=RetailStoreDb;Trusted\_Connection=True;");

}

}

**OUTPUT:**

****

**A screenshot of a computer

AI-generated content may be incorrect.**