```
etailInventoryApp > 🗘 Program.cs > ..
 using RetailInventoryApp;
    using RetailInventoryApp.Models;
    using System;
    using System.Linq;
    class Program
         static void Main()
             using var context = new AppDbContext();
             if (!context.Categories.Any())
                 var electronics = new Category { Name = "Electronics" };
                 var phone = new Product { Name = "Smartphone", Price = 699.99M, Category = electronics };
                 context.Categories.Add(electronics);
                 context.Products.Add(phone);
                 context.SaveChanges();
                 Console.WriteLine("Seed data added.");
                 Console.WriteLine("Data already exists.");
```

```
PS C:\Users\Lenovo\OneDrive\Desktop\RetailInventoryApp\RetailInventoryApp> dotnet ef database update
>> dotnet run
>>
Build started...
Build succeeded.
No migrations were applied. The database is already up to date.
Done.
Data already exists.
```

```
1  namespace Core.Models;
2
    4 references
3  public class Product
4  {
         0 references
5         public int Id { get; set; }
         2 references
6         public string Name { get; set; }
         2 references
7         public decimal Price { get; set; }
         2 references
8         public Category Category { get; set; }
9     }
10
```

```
Build started...

Build succeeded.

Acquiring an exclusive lock for migration application. See <a href="https://aka.ms/efcore-docs-migrations-lock">https://aka.ms/efcore-docs-migrations-lock</a> for more information if this take o long.

Applying migration '20250705153242_InitialCreate'.

Done.

Initial data inserted successfully.

PS C:\Users\Lenovo\core> dotnet run
Initial data inserted successfully.
```

```
| LABS.cspro|
| Continued | Co
```

PS C:\Users\Lenovo\LAB5> dotnet run
>>
C:\Users\Lenovo\LAB5\Models\Product.cs(8,25): warning CS8618: Non-nullable property 'Category' must contain a non-null value when exiting c onstructor. Consider adding the 'required' modifier or declaring the property as nullable.
Seeded sample data.
Smartphone - ₹69999
Laptop - ₹109999
Headphones - ₹2999
Found: Smartphone
Expensive: Smartphone

Retail Inventory

```
Build succeeded in 0.7s

PS C:\Users\Lenovo\RetailInventory> dotnet build
>>
Restore complete (0.7s)
RetailInventory succeeded with 1 warning(s) (1.2s) > bin\Debug\net9.0\RetailInventory.dll
C:\Users\Lenovo\RetailInventory\Program.cs(30,44): warning CS8602: Dereference of a possibly null reference.

Build succeeded with 1 warning(s) in 2.3s
PS C:\Users\Lenovo\RetailInventory> dotnet run
Products in Inventory:
Laptop (Electronics) - Stock: 5
Banana (Grocery) - Stock: 20
```

Retail Inventory

```
Program.cs > ધ Program > 🗘 Main
    using System Linq;
    using Microsoft.EntityFrameworkCore;
    using RetailInventory;
    using RetailInventory.Models;
    class Program
        static void Main(string[] args)
             using var context = new AppDbContext();
             if (!context.Categories.Any())
                var electronics = new Category { Name = "Electronics" };
var phone = new Product { Name = "Smartphone", Price = 699.99M, Category = electronics };
                context.Categories.Add(electronics);
                 context.Products.Add(phone);
                 context.SaveChanges();
                 Console.WriteLine("Data added successfully!");
                 var products = context.Products.Include(p => p.Category).ToList();
                 foreach (var product in products)
                     Console.WriteLine($"{product.Name} - {product.Price:C} - Category: {product.Category.Name}");
             Console.WriteLine("Press any key to exit...");
             Console.ReadKey();
```

Output:

□ PS C:\Users\Lenovo\OneDrive\Desktop\RetailInventory> dotnet run >> Smartphone - ₹ 699.99 - Category: Electronics Press any key to exit...