**LAB 5 : Retrieving Data from the Database**

**Objective:**

Use Find, FirstOrDefault,and tolistasync to retrieve data.

**Program.cs:**

using Microsoft.EntityFrameworkCore;

using RetailInventory.Models;

class Program

{

static async Task Main()

{

using var context = new AppDbContext();

// 1. Retrieve All Products

Console.WriteLine("=== All Products ===");

var products = await context.Products!

.Include(p => p.Category)

.ToListAsync();

foreach (var p in products)

{

Console.WriteLine($"{p.Name} - ₹{p.Price} ({p.Category.Name})");

}

// 2. Find by ID

Console.WriteLine("\n=== Find Product by ID ===");

var product = await context.Products!.FindAsync(1);

Console.WriteLine($"Found: {product?.Name}");

// 3. FirstOrDefault with Condition

Console.WriteLine("\n=== First Expensive Product (> ₹50000) ===");

var expensive = await context.Products

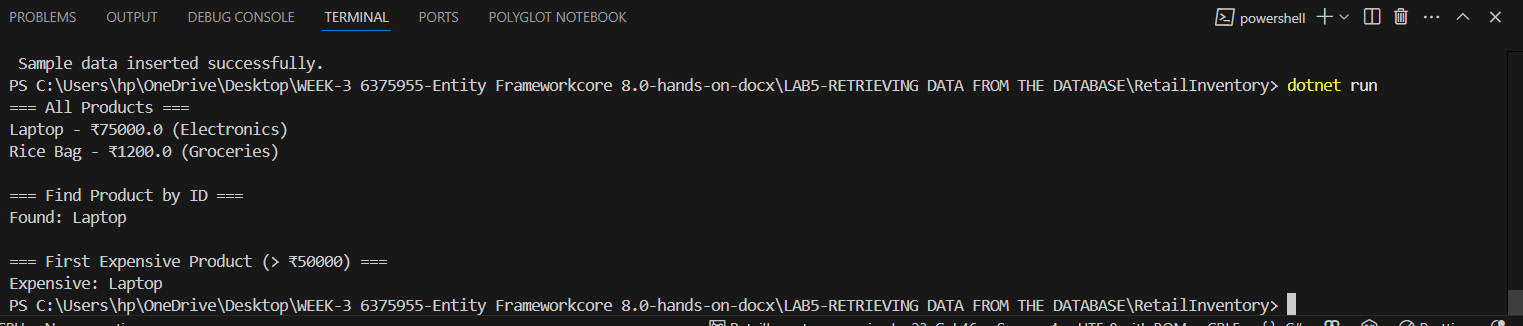
.FirstOrDefaultAsync(p => p.Price > 50000);

Console.WriteLine($"Expensive: {expensive?.Name}");

}

}

**Output:**

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