# **EF Core 8.0 Guided Hands-On Exercises**

### **Lab 5: Retrieving Data from the Database**

```
Product.cs + X Category.cs
                                                                Program.cs* + X
                                                                                → % Program

☐ MyFirstConsoleApp_6363862

                    using Microsoft.EntityFrameworkCore;
                    using MyFirstConsoleApp_6363862;
        29
                     0 references
                     class Program
                          static async Task Main(string[] args)
                               using var context = new AppDbContext();
                               Console.WriteLine("  Retrieving All Products:");
                               var products = await context.Products.ToListAsync(); // Gets all products from the table
                               foreach (var p in products)
                                    Console.WriteLine($"{p.Name} - ₹{p.Price}");
                              // STEP 2: Find a Product by Primary Key (Id = 1)
Console.WriteLine("\n \ Finding Product by ID = 1:");
var product = await context.Products.FindAsync(1); // Uses the primary key
Console.WriteLine($"Found: {product?.Name}"); // Safe access using null check
                               Console.WriteLine("\n'
    Finding Expensive Product (Price > ₹50000):");
                               var expensive = await context.Products.FirstOrDefaultAsync(p => p.Price > 50000); // Applies a filter
                               Console.WriteLine($"Expensive: {expensive?.Name}");
```

#### **Retrieve All Products:**

## Find by ID:

#### FirstOrDefault with Condition: