# EF CORE LAB 4

THE CODE:

using Microsoft.EntityFrameworkCore;

using System;

using System.Collections.Generic;

using System.Threading.Tasks;

namespace RetailInventorySystem

{

public class Category

{

public int Id { get; set; }

public string Name { get; set; }

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

}

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; }

}

public class AppDbContext : DbContext

{

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

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

protected override void OnConfiguring(DbContextOptionsBuilder optionsBuilder)

{

optionsBuilder.UseSqlServer(@"Server=.\SQLEXPRESS;Database=RetailInventoryDB;Trusted\_Connection=True;");

}

}

public class Program

{

public static async Task Main(string[] args)

{

using var context = new AppDbContext();

await context.Database.EnsureCreatedAsync();

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

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

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

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

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

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

await context.SaveChangesAsync();

Console.WriteLine(" Data inserted successfully.");

var products = await context.Products.Include(p => p.Category).ToListAsync();

foreach (var product in products)

{

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

}

}

}

}