Week 3 HandsOn:

**//Models**

**//Category.cs**

using System.Collections.Generic;

namespace RetailInventory.Models;

public class Category

{

public int Id { get; set; }

public string Name { get; set; } = null!;

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

}

//Products.cs

namespace RetailInventory.Models;

public class Product

{

public int Id { get; set; }

public string Name { get; set; } = null!;

public decimal Price { get; set; }

public int Stock { get; set; }

public int CategoryId { get; set; }

public Category Category { get; set; } = null!;

}

**//AppDbContext.cs**

using Microsoft.EntityFrameworkCore;

using RetailInventory.Models;

public class AppDbContext : DbContext

{

public DbSet<Product> Products => Set<Product>();

public DbSet<Category> Categories => Set<Category>();

protected override void OnConfiguring(DbContextOptionsBuilder optionsBuilder)

{

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

}

}

**//Program.cs**

using RetailInventory.Models;

internal class Program

{

private static async Task Main(string[] args)

{

var context = new AppDbContext();

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("Sample data inserted.");

}

}

**//Migrations**

using Microsoft.EntityFrameworkCore.Migrations;

#nullable disable

namespace RetailInventory.Migrations

{

/// <inheritdoc />

public partial class FinalInit : Migration

{

/// <inheritdoc />

protected override void Up(MigrationBuilder migrationBuilder)

{

migrationBuilder.AddColumn<decimal>(

name: "Price",

table: "Products",

type: "decimal(18,2)",

nullable: false,

defaultValue: 0m);

}

/// <inheritdoc />

protected override void Down(MigrationBuilder migrationBuilder)

{

migrationBuilder.DropColumn(

name: "Price",

table: "Products");

}

}

}

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