**Lab 2: Setting Up the Database Context for a Retail Store**

1. **Create Models:**

**public class Category {**

**public int Id { get; set; }**

**public string Name { get; set; }**

**public List 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; }**

**}**

**Category.cs**

namespace RetailInventory.Models;

public class Category

{

    public int Id { get; set; }

    public string Name { get; set; } = string.Empty;

    public List<Product> Products { get; set; } = new();

}

**Product.cs**

namespace RetailInventory.Models;

public class Product

{

    public int Id { get; set; }

    public string Name { get; set; } = string.Empty;

    public decimal Price { get; set; }

    public int CategoryId { get; set; }

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

}

**2. Create AppDbContext:**

public class AppDbContext : DbContext {

public DbSet Products { get; set; }

public DbSet Categories { get; set; }

protected override void OnConfiguring(DbContextOptionsBuilder optionsBuild

er) {

optionsBuilder.UseSqlServer("Your\_Connection\_String\_Here");

}

}

**Data/AppDbContext.cs**

using Microsoft.EntityFrameworkCore;

using RetailInventory.Models;

namespace RetailInventory.Data;

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=BT-22053067;Database=Retail-Inventory;Trusted\_Connection=True;TrustServerCertificate=True;");

    }

}

Output:

