

```
1 namespace CoffeeShopSample.Logic
2 {
3     public class CoffeeType
4     {
5         public int CoffeeTypeId { get; set; }
6         public string Name { get; set; }
7         public string CountryOfOrigin { get; set; }
8         public decimal Price { get; set; }
9     }
10 }
```

```
1 using System.Data.Entity;
2
3 namespace CoffeeShopSample.Logic
4 {
5     public class AppDbContext : DbContext
6     {
7         public AppDbContext(string connectionString):base(connectionString)
8         {
9
10        }
11        IDbSet<CoffeeType> CoffeeTypes { get; }
12        public IDbSet<CoffeePreference> CoffeePreferences { get; }
13    }
14 }
```

```
1 namespace CoffeeShopSample.Logic
2 {
3     public class CoffeePreference
4     {
5         public int AustralianCoffeeSearch { get; set; }
6     }
7 }
```

```
1 using System.Collections.Generic;
2 using System.Linq;
3
4 namespace CoffeeShopSample.Logic
5 {
6     public class ExampleDataAccessLayer
7     {
8         private readonly AppDbContext _context;
9
10        public ExampleDataAccessLayer(AppDbContext context)
11        {
12            _context = context;
13        }
14
15        public IEnumerable<CoffeeType> GetVietnameseCoffeeTypes()
16        {
17            return _context.CoffeeTypes.Where(ct => ct.CountryOfOrigin == "Vietnam");
18        }
19
20        public decimal GetAmericanCoffeePrice()
21        {
22            var americanCoffees = _context.CoffeeTypes
23                .Where(ct => ct.CountryOfOrigin == "America")
24                .ToList();
25
26            return americanCoffees[0].Price;
27        }
28
29
30
31
32
33
34
35
```

```
36
37 public IEnumerable<CoffeeType> SearchAustralianCoffeeTypes()
38 {
39     var types = GetAllCoffeeTypes()
40         .Where(ct => ct.CountryOfOrigin == "Australia")
41         .ToList();
42
43     var cp = _context.CoffeePreferences.SingleOrDefault();
44     cp.AustralianCoffeeSearch++;
45     _context.SaveChanges();
46
47     return types;
48 }
49
50 private IEnumerable<CoffeeType> GetAllCoffeeTypes()
51 {
52     return _context.CoffeeTypes.ToList();
53 }
54
55 public void IncreasePrices(IEnumerable<CoffeeType> coffeeTypes, double percentage)
56 {
57     foreach (var coffeeType in coffeeTypes)
58     {
59         var type = _context.CoffeeTypes.Single(ct => ct.CoffeeTypeId == coffeeType.CoffeeTypeId);
60         type.Price *= 1 + (decimal) percentage;
61         _context.SaveChanges();
62     }
63 }
64
65 }
```