

Övning Arbeta med Anonymous Types (10d)

Solution finns med i arkivet som du laddade ner tidigare.

Övning 1: Öppna lösning

Arbetsuppgift 1: Öppna lösningen och undersök uppbyggnad

Steg 1: I Visual Studio, i meny File, klicka på Open – Project/Solution, dubbelklicka på `easec\Modul10\Övning10d\FourthCoffee.Employees\FourthCoffee.Employees.sln`.

Steg 2: I Solution Explorer, expandera `FourthCoffee.Employees`, dubbelklicka därefter på `Program.cs`.

Steg 3: Undersök programkod för de olika metoderna.

Arbetsuppgift 2: Uppdatera model

Steg 1: I Solution Explorer, klicka på `FourthCoffee.EmployeesModel.edmx`.

Steg 2: Högerklicka i ytan för desigener, klicka på alternativet Update Model from Database.

Steg 3: Klicka på Next i dialogfönstret Choose your data connection.

Steg 4: Klicka på Next I dialogfönstret Choose your version. Klicka på Finish.

Steg 5: Klicka på Debug – Start without debugging.

Denna metod:

```


private static void UsingAnonymousTypes()
{
    var emps = from e in DBContext.Employees
               select new { e.FirstName, e.LastName };

    Console.WriteLine("LINQ Query to filter data by column by using anonymous types");
    Console.WriteLine("=====");

    foreach (var emp in emps)
    {
        Console.WriteLine("{0} {1}", emp.FirstName, emp.LastName);
    }
    Console.WriteLine();
    Console.ReadLine();
}

```

Kommer att ge följande resultat:

 C:\Windows\system32\cmd.exe

```

LINQ Query to filter data by column by using anonymous types
=====
Terry Adams
Toni Poe
Charlie Herb
Diane Prescott
Glen John
Sean Bentley
Will Kennedy
Dennis Saylor

```

Steg 6: Klicka på Enter.

Denna metod:

```

private static void GroupingData()
{
    var emps = from e in DBContext.Employees
               group e by e.JobTitle into eGroup
               select new { Job = eGroup.Key, Names = eGroup };

    Console.WriteLine("LINQ Query to select all employees and group them by their job title id");
    Console.WriteLine("=====");

    foreach (var emp in emps)
    {
        Console.WriteLine(emp.Job);
        foreach (var name in emp.Names)
        {
            Console.WriteLine("    {0} {1}", name.FirstName, name.LastName);
        }
    }
    Console.WriteLine();
    Console.ReadLine();
}

```

Kommer att ge följande resultat:

```

LINQ Query to select all employees and group them by their job title id
=====
1
  Terry Adams
  Glen John
  Dennis Saylor
2
  Toni Poe
  Sean Bentley
3
  Charlie Herb
  Diane Prescott
  Will Kennedy

```

Steg 7: Klicka på Enter.

Denna metod:

```

private static void AggregatingData()
{
    var jobs = from e in DBContext.Employees
               group e by e.JobTitle into eGroup
               select new { Job = eGroup.Key, CountOfEmployees = eGroup.Count() };

    Console.WriteLine("LINQ Query to select all employees, group them by their job title id, and provide count per job title id");
    Console.WriteLine("=====");

    foreach (var job in jobs)
    {
        Console.WriteLine("Job: {0}, Count of Employees: {1}", job.Job, job.CountOfEmployees);
    }
    Console.WriteLine();
    Console.ReadLine();
}

```

Kommer att ge följande resultat:

```

LINQ Query to select all employees, group them by their job title id, and provide count per job title id
=====
Job: 1, Count of Employees: 3
Job: 2, Count of Employees: 2
Job: 3, Count of Employees: 3

```

Steg 8: Klicka på Enter.

Denna metod:

```
private static void NavigatingData()
{
    var emps = from e in DBContext.Employees
               select new
               {
                   FirstName = e.FirstName,
                   LastName = e.LastName,
                   Job = e.JobTitle1.Job
               };

    Console.WriteLine("LINQ Query to select all employees and their job titles");
    Console.WriteLine("=====");
    foreach (var emp in emps)
    {
        Console.WriteLine("{0} {1}, {2}", emp.FirstName, emp.LastName, emp.Job);
    }
    Console.WriteLine();
    Console.ReadLine();
}
```

Kommer att följande resultat:

```
LINQ Query to select all employees and their job titles
=====
Terry Adams, Branch Manager
Toni Poe, Barista
Charlie Herb, Trainee Barista
Diane Prescott, Trainee Barista
Glen John, Branch Manager
Sean Bentley, Barista
Will Kennedy, Trainee Barista
Dennis Saylor, Branch Manager
```

Steg 9: Avsluta programmet.

Steg 10: Klicka på Close Solution.