

## Фильтрация. Проецирование. Объединение.

```
class Employee
{
    public int Id { get; set; }
    public string FirstName { get; set; }
    public string LastName { get; set; }
    public int Age { get; set; }
    public int DepId { get; set; }
}

class Department
{
    public int Id { get; set; }
    public string Country { get; set; }
    public string City { get; set; }
}

class Program
{
    static void Main()
    {
        List<Department> departments = new List<Department>()
        {
            new Department(){ Id = 1, Country = "Ukraine", City = "Lviv" },
            new Department(){ Id = 2, Country = "Ukraine", City = "Kyiv" },
            new Department(){ Id = 3, Country = "France", City = "Paris" },
            new Department(){ Id = 4, Country = "Ukraine", City = "Odesa" }
        };

        List<Employee> employees = new List<Employee>()
        {
            new Employee()
            { Id = 1, FirstName = "Tamara", LastName = "Ivanova", Age = 22, DepId = 2 },
            new Employee()
            { Id = 2, FirstName = "Nikita", LastName = "Larin", Age = 33, DepId = 1 },
            new Employee()
            { Id = 3, FirstName = "Alica", LastName = "Ivanova", Age = 43, DepId = 3 },
            new Employee()
            { Id = 4, FirstName = "Lida", LastName = "Marusyk", Age = 22, DepId = 2 },
            new Employee()
            { Id = 5, FirstName = "Lida", LastName = "Voron", Age = 36, DepId = 4 },
            new Employee()
            { Id = 6, FirstName = "Ivan", LastName = "Kalyta", Age = 22, DepId = 2 },
            new Employee()
            { Id = 7, FirstName = "Nikita", LastName = "Krotov", Age = 27, DepId = 4 }
        };
    }
}
```

- 1) Выбрать имена и фамилии сотрудников, работающих в Украине, но не в Одессе.
- 2) Вывести список стран без повторений.
- 3) Выбрать 3-х первых сотрудников, возраст которых превышает 25 лет.
- 4) Выбрать имена, фамилии и возраст студентов из Киева, возраст которых превышает 23 года.