

How can I select just two columns from a list using LINQ

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I have a variable that contains a list of the following Class:

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```
public class Test
{
    public int a { get; set; }
    public int b { get; set; }
    public int c { get; set; }
}
```

IList abc;

How can I create a new list that contains just the first two columns using LINQ

c#

asked Nov 19 '13 at 10:36

user1943020

6 Answers

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The list is not the problem but your class, it has three properties. So

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you either have to use an anonymous type or a `Tuple<int, int>`,
change your class or create a new class with just two properties.



New class approach:



```
public class Test2
{
    public int a { get; set; }
    public int b { get; set; }
}

var list = testList
    .Select(t => new Test2{ a = t.a, b = t.b } )
    .ToList();
```

Anonymous type:

```
var list = testList
    .Select(t => new { a = t.a, b = t.b } )
    .ToList();
```

List<Tuple<int, int>> approach:

```
var list = testList
    .Select(t => Tuple.Create(t.a, t.b))
    .ToList();
```

Here is another approach that just takes two properties and leaves
the third `int.MinValue` :

```
var list = testList
    .Select(t => new Test{ a = t.a, b = t.b, c = int.MinValue } )
    .ToList();
```

answered Nov 19 '13 at 10:41



Rango

366k 46 474 735

try this:

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```
List<Test> list = new List<Test>();
List newList = list.Select(i => new { i.a, i.b});
```

edited Jun 17 '17 at 12:11

me

[meagar](#) ♦

181k 30 276 294

answered Nov 19 '13 at 10:40



[sternze](#)

502 1 4 14

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This way the columns are still named the same for clarity.

```
var newList = from t in myTestList select new { a= t.a,b=t.b }.ToList;
```

answered Nov 19 '13 at 10:40



[David Pilkington](#)

11.3k 2 27 54

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```
List<Test> tt = new List<Test> ();
tt.Select(x => new {x.a, x.b}).ToList ();
```

answered Nov 19 '13 at 10:40



[User1551892](#)

1,863 3 23 45

You can create a LINQ query that returns an anonymous type

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```
var qRequest = from x in yourList
                select new { A = x.Field1, B = x.Field2 };
```

answered Nov 19 '13 at 10:39



AlexB

5,243 12 42 61

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If you want to use the same List of Test, you need to provide default value to column c and include it.

```
const int defaultValue = 0;
List<Test> result = Test.Select(x => new { x.a, x.b, c = defaultValue });
```

answered Nov 19 '13 at 10:39



Imran Rizvi

5,028 8 42 88

