

# Where IN clause in LINQ [duplicate]

Asked 10 years, 6 months ago Active 5 years, 6 months ago Viewed 438k times

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[Linq to Entities - SQL "IN" clause](#) (9 answers)

Closed 5 years ago.

How to make a where in clause similar to one in SQL Server?

I made one by myself but can anyone please improve this?

```
public List<State> Wherein(string listofcountrycodes)
{
    string[] countrycode = null;
    countrycode = listofcountrycodes.Split(',');
    List<State> statelist = new List<State>();

    for (int i = 0; i < countrycode.Length; i++)
    {
        _states.AddRange(
            from states in _objdatasources.StateList()
            where states.CountryCode == countrycode[i].ToString()
            select new State
            {
                StateName = states.StateName
            });
    }
    return _states;
}
```

c# linq

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edited Jun 6 '09 at 14:47



ichiban  
5,973 ● 3 ● 24 ● 34

asked Jun 6 '09 at 14:08



priyanka.sarkar  
20.8k ● 35 ● 103 ● 158

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8 Answers

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242

This expression should do what you want to achieve.

```
dataSource.StateList.Where(s => countryCodes.Contains(s.CountryCode))
```

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edited Dec 17 '12 at 17:54

answered Jun 6 '09 at 14:37



Daniel Brückner  
53.5k ● 11 ● 87 ● 135

9 this will compare string values, but what about ids?? – Jitendra Pancholi Feb 22 '13 at 7:32

@JitendraPancholi if you create a List<int> you can check for ids. It is supported in .Net 4. Not sure of the earlier versions. – Pashmi Pandit Jun 10 '14 at 5:16

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94 This will translate to a where in clause in Linq to SQL...

```
var myInClause = new string[] { "One", "Two", "Three" };

var results = from x in MyTable
               where myInClause.Contains(x.SomeColumn)
               select x;

// OR
var results = MyTable.Where(x => myInClause.Contains(x.SomeColumn));
```

In the case of your query, you could do something like this...

```
var results = from states in _objectdatasource.StateList()
               where listofcountrycodes.Contains(states.CountryCode)
               select new State
               {
                   StateName = states.StateName
               };

// OR
var results = _objectdatasource.StateList()
               .Where(s => listofcountrycodes.Contains(s.CountryCode))
               .Select(s => new State { StateName = s.StateName });
```

share improve this answer

edited Jun 6 '09 at 14:42

answered Jun 6 '09 at 14:36



Scott Ivey  
36.3k • 17 • 74 • 115

Thank you :) Helped me as well +1 – Thiago Loureiro Aug 31 '17 at 14:42

add a comment

I like it as an extension method:

```
33 public static bool In<T>(this T source, params T[] list)
    {
        return list.Contains(source);
    }
```

Now you call:

```
var states = _objdatasources.StateList().Where(s => s.In(countrycodes));
```

You can pass individual values too:

```
var states = tooManyStates.Where(s => s.In("x", "y", "z"));
```

Feels more natural and closer to sql.

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answered Jun 17 '13 at 18:19



nawfal  
54.8k • 39 • 272 • 317

2 where should i write this extension method – Rohaan Feb 4 '14 at 5:46

@Rohaan, in any static class (that is not generic and not nested) – nawfal Feb 4 '14 at 17:24

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1 There's only mileage in writing the extension class if you're going to be reusing the Where In part of your linq. Upvoted the answer, but just wanted to let others who come across this question and go straight for the extension method route. – JARRRRRG Jan 27 '16 at 10:09

@Jurg It's pretty frequently required, no? I use it all the time. Works fine for Linq to Objects, haven't tried for IQueryable. – nawfal Jan 27 '16 at 11:15

No what I meant was, it's used frequently sure however in a particular project if you only need to do this in say a single controller (aka once) then there's an extension method is not required. This was more for people who are new to c#/linq :) – JARRRRRG Jan 27 '16 at 12:07

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10

```
public List<Requirement> listInquiryLogged()
{
    using (DataClassesDataContext dt = new DataClassesDataContext(System.Configuration.Config
    {
        var inq = new int[] {1683,1684,1685,1686,1687,1688,1688,1689,1690,1691,1692,1693};
        var result = from Q in dt.Requirements
                     where inq.Contains(Q.ID)
                     orderby Q.Description
                     select Q;

        return result.ToList<Requirement>();
    }
}
```

share improve this answer

answered Jun 12 '14 at 11:49



Libertine

175 • 2 • 8

What is it's equivalence method syntax? – Vahid Ghadiri Jun 12 '18 at 8:55

1 Thank you so very much for this, been struggling for days and this was the only thing that worked. So simple and effective a solution. – Dennis Sep 26 at 7:24

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6

The "IN" clause is built into linq via the .Contains() method.

For example, to get all People whose .States's are "NY" or "FL":

```
using (DataContext dc = new DataContext("connectionstring"))
{
    List<string> states = new List<string>(){ "NY", "FL" };
    List<Person> list = (from p in dc.GetTable<Person>() where states.Contains(p.State) select
}
```

share improve this answer

edited May 3 '13 at 12:25

answered Jun 6 '09 at 14:37



nikmd23

8,660 • 4 • 37 • 54

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4

```
from state in _objdatasource.StateList()
where listofcountrycodes.Contains(state.CountryCode)
select state
```

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answered Jun 6 '09 at 14:37



Andrija

11.6k ● 14 ● 48 ● 68

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This little bit different idea. But it will useful to you. I have used sub query to inside the linq main query.

2

### Problem:

Let say we have document table. Schema as follows schema :  
*document(name,version,author,modifieddate)* composite Keys : name,version

So we need to get latest versions of all documents.

### soloution

```
var result = (from t in Context.document
              where ((from tt in Context.document where t.Name == tt.Name
                      orderby tt.Version descending select new {Vesion=tt.Version})).
              select t).ToList();
```

share improve this answer

answered Jul 11 '12 at 2:54



Laksh

31 ● 1

add a comment



1

```
public List<State> GetcountryCodeStates(List<string> countryCodes)
{
    List<State> states = new List<State>();
    states = (from a in _objdatasources.StateList.AsEnumerable()
              where countryCodes.Any(c => c.Contains(a.CountryCode))
              select a).ToList();
    return states;
}
```

share improve this answer

answered Aug 24 '11 at 12:23



Siva

27 ● 1

6 Welcome on SO, here, it is a good practice to explain why to use your solution and not just how. That will make your answer more valuable and help further reader to have a better understanding of how you do it. I also suggest that you have a look on our FAQ : [stackoverflow.com/faq](http://stackoverflow.com/faq). – ForceMagic Nov 13 '12 at 19:05

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