
(<https://www.facebook.com/Debuxing/>)


(<https://twitter.com/DebuxingTech>)

Search ...



BUX

(<http://debuxing.com/>)

Entity Framework: Join Tables Example C#

November 2, 2017 (<http://debuxing.com/entity-framework-join-tables-example-c/>) / Emanuele
Buccelli (<http://debuxing.com/author/koldand/>) / Entity-Framework
(<http://debuxing.com/category/programming/entity-framework/>)

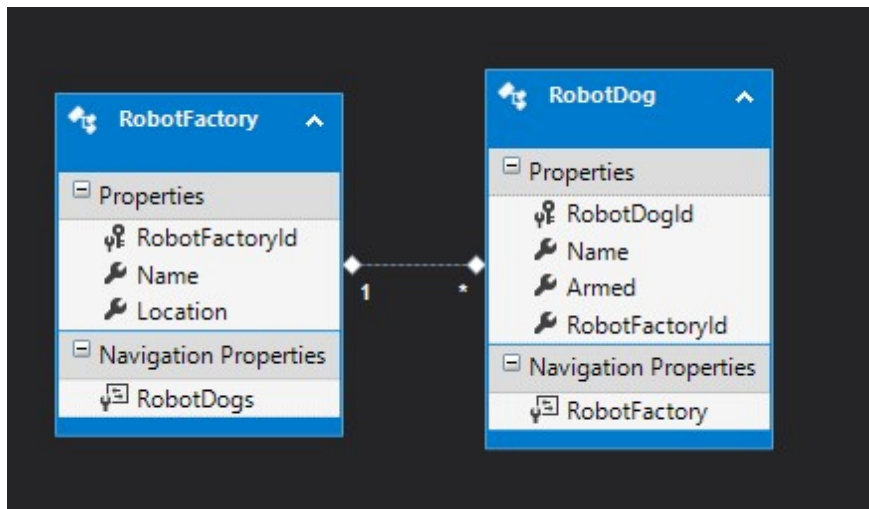
We use cookies to ensure that we give you the best experience on our website. If you continue to use this site we will assume that you are happy with it.

First things first: you should make good use of the navigation properties **whenever possible**.

The **Join Query** tool could be your friend if you don't have any navigation properties but you still need to join two tables (or more).

Starting Point

In this tutorial we will use the simple database created in the Entity Framework Database First Approach (<http://debuxing.com/net-mvc-entity-framework-database-first-approach-example/>), but without using the navigation properties.



Syntax

The first thing you have to know is the syntax:

```

SELECT [column/columns]
FROM [table1-name]
JOIN [table2-name]
ON [table1-column] = [table2-column]
  
```

Join Query

Suppose we want to join the *RobotDog* and *RobotFactory* tables, to find the robot dogs produced in the Texan military base.

The **Equals** keyword is our ally in this mission.

We join the two tables on the RobotFactoryId, taking only the beasts whom factory is in Texas.

```

using (RobotIndustryEntities context = new (http://www.google.com/search?q=nev
{
  
```

We use cookies to ensure that we give you the best experience on our website. If you continue to use this site we will assume that you are happy with it.

```

        on d.RobotFactoryId equals f.RobotFactoryId
    where f.Location == "Texas"
    select d).ToList();
}

```

Or we can use the **Join method**

```

var robotDogs = context.RobotDogs
    .Join(
        context.RobotFactories.Where(x => x.Location == "Texas"),
        d => d.RobotFactoryId,
        f => f.RobotFactoryId,
        (d, f) => d)
    .ToList();

```

Select columns to show

You can also choose which column to show after the join. Consider the previous code:

```

var robotDogs = (from d in context.RobotDogs
    join f in context.RobotFactories
    on d.RobotFactoryId equals f.RobotFactoryId
    where f.Location == "Texas"
    select d).ToList();

```

You can change that **select d** in:

```

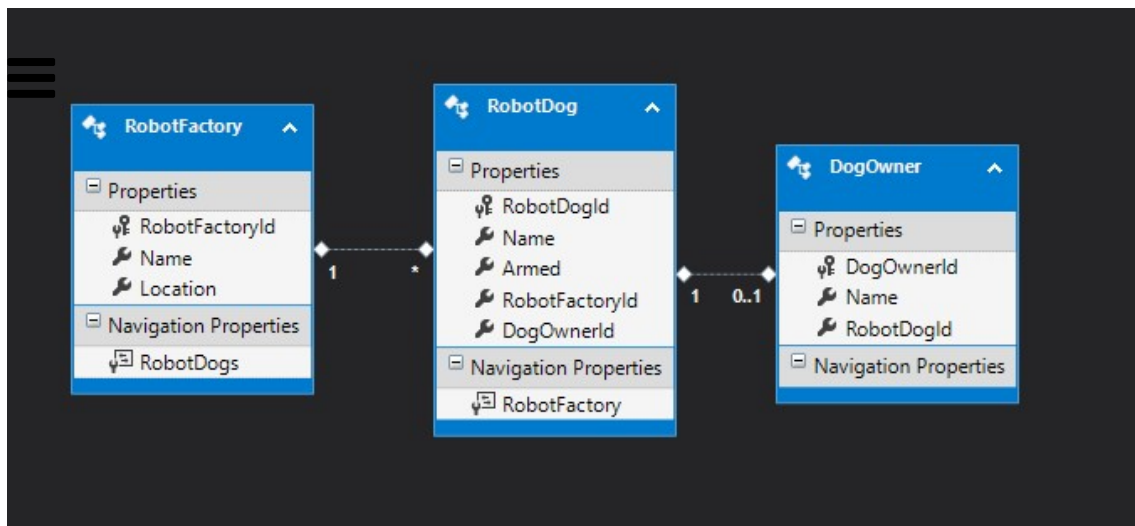
select new (http://www.google.com/search?q=new+msdn.microsoft.com) {
    Location = f.Location,
    RobotName = d.Name,
    IsArmed = d.Armed
}

```

Multiple Tables

Not much changes if we want to join multiple tables.

Consider a database with three tables:



We want to find all the people that has dogs from the Texan factory:

```

var robotOwners = (from o in context.RobotOwners
    join d in context.RobotDogs
    on d.DogOwnerId equals o.DogOwnerId
    join f in context.RobotFactories
    on f.RobotFactoryId equals d.RobotFactoryId
    where f.Location == "Texas"
    select o).ToList();
  
```

I found this Course on Database Management (<http://bit.ly/2CIEbSk>) to be a really nice and no-frills course to expand your knowledge about relational databases. It's from Coursera, a well known site with trusted content. Definitely worth to check out.

Share this:

 (<http://debuxing.com/entity-framework-join-tables-example-c/?share=twitter&nb=1>)

 (<http://debuxing.com/entity-framework-join-tables-example-c/?share=facebook&nb=1>)

 (<http://debuxing.com/entity-framework-join-tables-example-c/?share=google-plus-1&nb=1>)

Like this:



One blogger likes this.

Entity Framework: Left
Join example C#

(<http://debuxing.com/entity-framework-left-join-example-c/>)

Entity Framework: Group
By example C#

(<http://debuxing.com/entity-framework-group-by-example-c/>)

Entity Framework: Linq
Join Example C#

(<http://debuxing.com/entity-framework-linq-join-example-c/>)

We use cookies to ensure that we give you the best experience on our website. If you continue to use this site we will assume that you are happy with it.

Ok

Tagged entity-framework (<http://debuxing.com/tag/entity-framework/>), join (<http://debuxing.com/tag/join/>), mvc (<http://debuxing.com/tag/mvc/>), tables (<http://debuxing.com/tag/tables/>)

.NET MVC: Entity Framework Database First Approach Example
(<http://debuxing.com/net-mvc-entity-framework-database-first-approach-example/>)

Entity Framework: What version am I using?
(<http://debuxing.com/entity-framework-what-version-am-i-using/>)

2 Comments debuxing

 Login

 Recommend 2  Tweet  Share

Sort by Best



Join the discussion...

LOG IN WITH

OR SIGN UP WITH DISQUS ?

Name



raopazom • 3 months ago

Thanks!

^ v • Reply • Share ›




halit • 4 months ago

thank you very much for your study .

i am unstand with your explantion .

^ v • Reply • Share ›

 Subscribe  Add Disqus to your siteAdd DisqusAdd  Disqus' Privacy PolicyPrivacy PolicyPrivacy

We use cookies to ensure that we give you the best experience on our website. If you continue to use this site we will assume that you are happy with it. 



We use cookies to ensure that we give you the best experience on our website. If you continue to use this site we will assume that you are happy with it.

Ok