

how do I sort a collection with child property?

Asked 8 years, 11 months ago Active 7 years, 2 months ago Viewed 15k times



I should sort parent based on a field of child.

6

sample code;



```
IQueryable<Parent> data = context.Parents.Include(o=>o.Children);
```



4

//Child has a member (string) Name.



question: how can I sort Parent by Children Names.

linq

linq-to-sql

entity-framework-4.1

asked Jul 7 '11 at 21:53



Nuri YILMAZ

4,064

5

32

41

2 Answers

Active

Oldest

Votes



Your question is somewhat confusing, since first of all, it is tagged both with Entity Framework and LINQ-to-SQL. Which ORM are you actually using?

34

Secondly, and more to the point, you say that you want to "sort Parent by Children Names". Which child name do you want to sort by? You do realize that you can't compare a **list** of names to another **list** of names and decide which one should come before the other?



So if I assume you want to sort by the child name that comes first lexicographically, your solution would be the following (@Paul was close on this one, but you need to specify the property you are sorting by):



```
context.  
Parents.  
OrderBy(p => p.  
Children.
```

```
OrderBy(c => c.Name).Select(c => c.Name).FirstOrDefault()
);
```

In this case, consider the following setup. Parent `PA` has children `CB` and `CD` while parent `PB` has children `CC` and `CA`. As a result of the sorting, parent `PB` will come first in the sorted list, since child `CA` will be used as the "main" child for `PB`, while `CB` will be the "main" child for `PA`. If that's not the behavior you are looking for, please provide an example and a clearer description.

answered Jul 8 '11 at 14:40



Yakimych

16.5k ● 7 ● 45 ● 64

You can take one of the children names to sort by, probably select it by doing the corresponding sorting?

3

Something like:

```
IQueryable<Parent> data = context.Parents.OrderBy(
    p=>p.Children.OrderBy(chi => chi.Name).FirstOrDefault());
```



answered Jul 7 '11 at 22:51



Paul

1,731 ● 1 ● 20 ● 42

hi Paul. this linq throwed exception; "DbSortClause expressions must have a type that is order comparable. Parameter name: key" – Nuri YILMAZ Jul 7 '11 at 23:05

Can you probably try the approach described here: social.msdn.microsoft.com/forums/en-US/adodotnetentityframework/... – Paul Jul 7 '11 at 23:19

@NuriYILMAZ that's because after `FirstOrDefault()` you need to get the property or column as well such as `FirstOrDefault().MyProperty1`. – Idrees Khan May 31 '16 at 6:52