How do I get the max ID with Linq to Entity?

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70

I have a table User which has an identity column `UserID`, now what is the correct Linq to Entity line of code that would return me the max `UserID` ?

▼

I've tried:

★

12

```
using (MyDBEntities db = new MyDBEntities())
{
    var User = db.Users.Last();
    // or
    var User = db.Users.Max();

    return user.UserID;
}
```

but `Last` and `Max` don't seem to be supported.

Any ideas?

`c#`   `linq`   `entity-framework`   `linq-to-entities`

edited Apr 10 '17 at 21:00

moondaisy
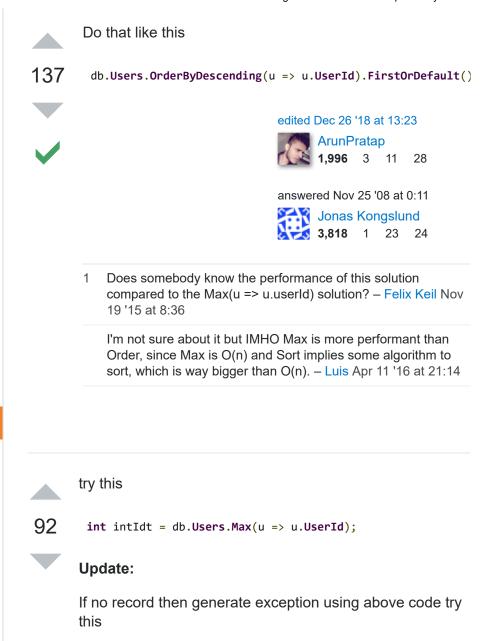**2,203**   3   19   42

asked Nov 25 '08 at 0:09

Ray
5,138   19   78   116

Do that like this

▲

137

```
db.Users.OrderByDescending(u => u.UserId).FirstOrDefault()
```

▼

✓

edited Dec 26 '18 at 13:23

ArunPratap
1,996   3   11   28

answered Nov 25 '08 at 0:11

Jonas Kongslund
3,818   1   23   24

1   Does somebody know the performance of this solution compared to the Max(u => u.userId) solution? – Felix Keil Nov 19 '15 at 8:36

I'm not sure about it but IMHO Max is more performant than Order, since Max is O(n) and Sort implies some algorithm to sort, which is way bigger than O(n). – Luis Apr 11 '16 at 21:14

try this

▲

92

```
int intIdt = db.Users.Max(u => u.UserId);
```

▼

Update:

If no record then generate exception using above code try this

```
int? intIdt = db.Users.Max(u => (int?)u.UserId);
```

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5,944   6   55   69

answered Mar 27 '09 at 14:06

Thiago Valente

Thanks it's helpful for me int? intIdt = db.Users.Max(u => (int?)u.UserId); – G.S. Shekhawat Aug 9 '13 at 9:44 ✏

3   Is it just me or this style is more readable than Jonas Kongslund's answer? – BornToCode Nov 26 '14 at 20:00 ✏

1   I prefer this answer above the accepted – MacGyver Jul 28 '15 at 18:27

2   @BornToCode It depends on what you're actually trying to do. This solution answer the question (it gets the max id), whereas Jonas Kongslund's answer returns the object with the max id. – actaram Jun 1 '16 at 16:38

this is better than accepted answer.. – Sunil Chaudhary Jun 29 '18 at 8:14

NisaPrieto

10

```
Users user = bd.Users.Where(u=> u.UserAge > 21).Max(u => u
```

will not work because MAX returns the same type of variable that the field is so in this case is an INT not an User object.

edited Jul 28 '15 at 18:29

MacGyver
4,098   10   47   85

109   1   2

This code encountered error if table be empty. –
Mohamed Salemyan Jul 7 '18 at 6:03

9

```
var max = db.Users.DefaultIfEmpty().Max(r => r == null ? 0
```

when there are no records in db it would return 0 with no
exception.

edited Jul 28 '15 at 18:27

MacGyver
4,098   10   47   85

answered May 15 '15 at 11:08

Harsha.Vaswani
749   10   13

3   r => r?.ModelId ?? 0 - shortcut in new C# –
Krzysztof Skowronek Nov 20 '16 at 17:49

2

In case if you are using the `async` and `await` feature, it
would be as follows:

```
User currentUser = await db.Users.OrderByDescending(u =>
u.UserId).FirstOrDefaultAsync();
```

answered Dec 12 '16 at 10:13

Psi-Ed
513 1 7 20

The best way to get the id of the entity you added is like this:

0

```
public int InsertEntity(Entity factor)
{
    Db.Entities.Add(factor);
    Db.SaveChanges();
    var id = factor.id;
    return id;
}
```

edited Apr 10 '17 at 20:28

moondaisy
2,203 3 19 42

answered Apr 10 '17 at 19:40

Michel Lozada
1 1