



Milan Jovanović • Following
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5 EF Core features you need to know 🦊🔥

1. Query splitting

- Splits JOINS into multiple queries
- Could improve query performance

2. Bulk updates

- Uses ExecuteUpdate to update many entities
- Directly goes to DB, isn't part of a unit of work

3. Raw SQL queries

- Load entities from DB using raw SQL
- Allows you to use SQL features

4. Bulk deletes

- Uses ExecuteUpdate to delete many entities
- Directly goes to DB, isn't part of the unit of work

5. Ignoring query filters

- Query filter allows you to automatically filter LINQ queries
- Ignoring the query filter can be useful sometimes

Bonus - Here are five more EF Core features you should know: <https://lnkd.in/eijGi98W>

What is your favorite thing about EF Core?

5 Must-Know EF Core Features



1. QUERY SPLITTING

```
dbContext
    .Orders
    .Include(order => order.LineItems)
    .AsSplitQuery()
    .First(order => order.Id == orderId);
```

2. BULK UPDATE

```
dbContext
    .Invoices
    .Where(i => i.DueDate < DateTime.UtcNow)
    .ExecuteUpdate(s => s.SetProperty(
        i => i.Overdue,
        i => true));
```

3. RAW SQL QUERIES

```
dbContext
    .TicketTypes
    .FromSql(
        @"
        SELECT id, event_id, name, price, currency, quantity
        FROM ticketing.ticket_types
        WHERE id = {id}
        FOR UPDATE NOWAIT"" // PostgreSQL: Lock or fail immediately
    .Single()
```

4. BULK DELETE

```
dbContext
    .Notifications
    .Where(n => n.Snoozed)
    .ExecuteDelete();
```

5. IGNORE QUERY FILTERS

```
dbContext.Reviews
    .IgnoreQueryFilters()
    .Where(r => r.ApartmentId == apartmentId)
    .ToList();
```

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Tatenda P. Nyamuda • 3rd+
.NET Developer | C# | Vue.js

Just used AsSplitQuery a few minutes ago in my project. I had three .Include() statements in my query. I was getting a warning from EF Core and the response from the query was slow. After doing some digging, that's when I realized I should be using query splitting in this case.

So from what I understand, query splitting allows EF Core to load each related entity using separate SQL queries instead of trying to join everything into one big query, which is what could cause a decrease in performance.

I haven't used the other 4 features yet, but I'm interested in Bulk Update and Raw Queries.

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Micael Uthas • 3rd+

Freelance SQL Server Specialist | 20+ Years in Jeeves ERP Adaptations, SQL Dev. With Extensive En...

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[Tatenda P. Nyamuda](#) This is one thing I use as an argument for not using ORM's.

Transfer more data then needed to gain performance(you must recognise how stupid that sounds).

Investigate the original query and determine why it performs bad before you move optimization stages to backend!

Databasengines was built for this kind of tasks.

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Habeeb Yakubu • 2nd


Microsoft MVP | Architecting Enterprise Solutions on Azure, Power Platform & D365 | Senior Consultant ...

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Favorite thing about EF Core: I can still write raw SQL when needed. Both FromSqlRaw and FromSqlInterpolated return IQueryable, which I can add a LINQ to. It also keeps my SQL sharp. No one should ever forget how to write some raw queries.

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Milan Jovanović 

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What I don't like there is that they do a nested query in that case, instead of somehow modifying the original one. This could lead to some strange query plans.

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[Milan Jovanović](#) Valid, something to consider while using.