



# What's new in Entity Framework Core 7.0



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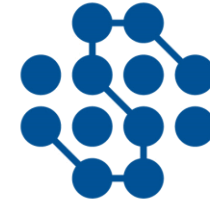
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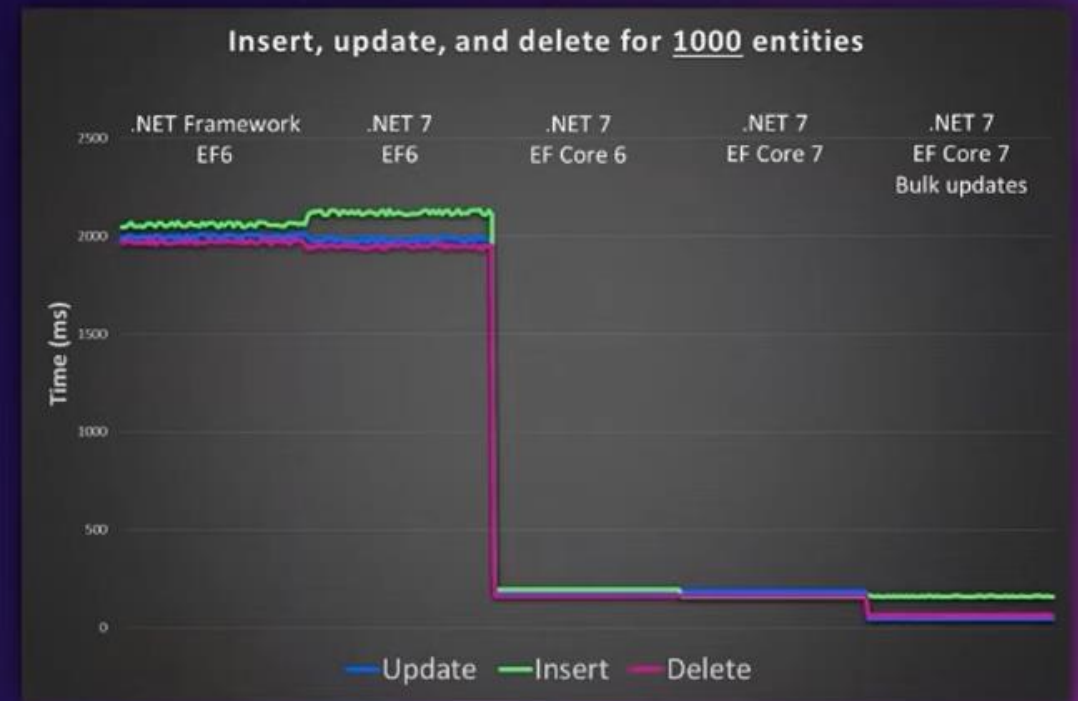
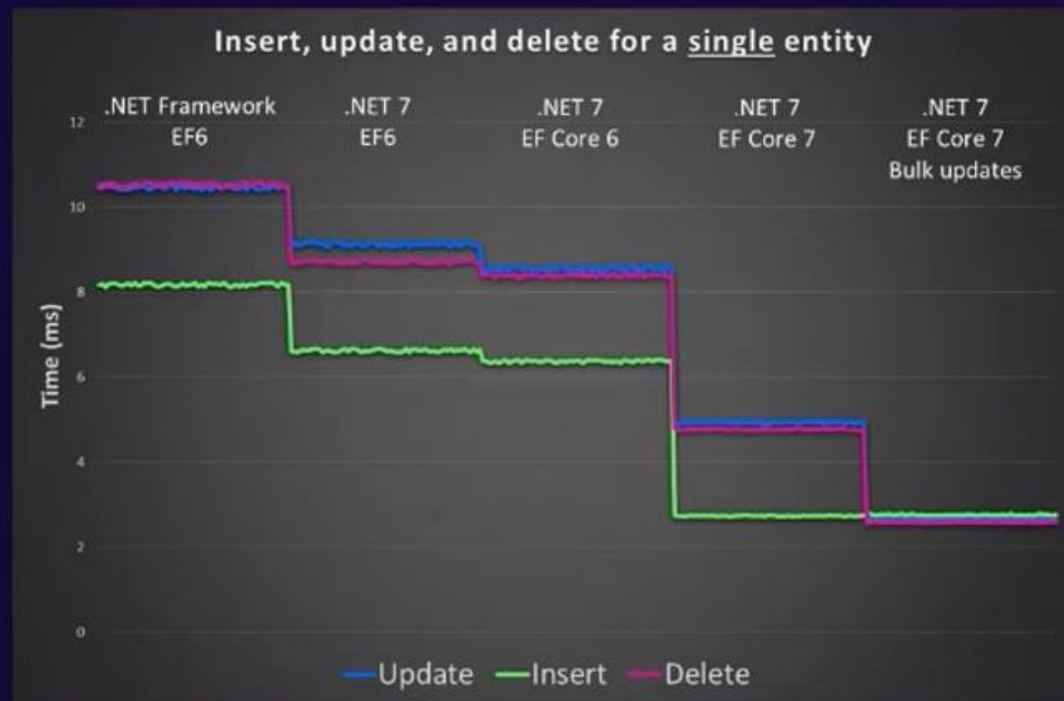
**DATA SKILLS**  
UNDERSTANDING THE WORLD



# .NET Framework with EF6 → .NET 7 with EF Core 7

Single entity	Gain	Using bulk
Insert	3.0x	3.0x
Update	2.1x	3.9x
Delete	3.0x	4.1x
Query	1.5x	1.5x

1000 entities	Gain	Using bulk
Insert	13x	13x
Update	11x	44x
Delete	12x	31x
Query	1.7x	1.7x



Demo

# Support for DateOnly and TimeOnly

- Entity Framework Core uses Microsoft.Data.SqlClient under the hood
- SqlClient will support DateOnly and TimeOnly starting from v5.1 (currently in preview)
- Entity Framework Core support hasn't been announced yet
  - Most likely, it will come in Entity Framework Core 8.0
- <https://github.com/dotnet/SqlClient/issues/1009>
- <https://techcommunity.microsoft.com/t5/sql-server-blog/released-microsoft-data-sqlclient-5-1-preview-2/ba-p/3674114>

# Beware of this breaking change

- SqlClient connection strings now use *Encrypt=True* by default:
  - The server must be configured with a valid certificate
  - The client must trust this certificate
- If these conditions are not met, then a `SqlException` will be thrown  
A connection was successfully established with the server, but then an error occurred during the login process. (provider: SSL Provider, error: 0 - The certificate chain was issued by an authority that is not trusted.)
- <https://github.com/dotnet/SqlClient/pull/1210>

# References

- <https://devblogs.microsoft.com/dotnet/announcing-ef7>
- <https://learn.microsoft.com/en-us/ef/core/what-is-new/ef-core-7.0/whatsnew>
- <https://learn.microsoft.com/en-us/ef/core/what-is-new/ef-core-7.0/breaking-changes>
- <https://gist.github.com/marcominerva/5e42a6d3493cfe2a0a84d29ce5727932>

# DATA SATURDAYS

## Thank you

Questions?



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