

The End of N+1 is Near

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Jens Schauder

Trigger Warning!

This talk contains SQL. Lots.

Proceed at own risk.

But there are Minions!





N+1

Minions mit ihren Toys

- 1. Lade Minions
- 2. Lade für jeden Minion die Toys

```
select * from minion where ...
into minions;

foreach Minion m : minions
        Select * from toy where minion_id = m.id
```



Because Reasons!



What should we load?

Minions

- -> EvilMaster
 - -> Antagonist
 - -> SuperPower



Aggregates!



But How?





Demo Time

More Ideas

Specify Where Clause Only



R2DBC



GraphQL?



Select Trees of Aggregates?



I have ideas for preemptive caching ...



Thank you

Contact me at jschauder<u>@vmware.com</u>

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"Twitter? Ich kenne kein Twitter! Ich weiss nicht, wo Twitter liegt! Niemand weiss wo Twitter liegt!"







Spring Meetup II 2023

15.03.2023

Jürgen Höller Johannes Jank



Watch Party

25 January 2023 15:00 – 20:30 Munich

https://bit.ly/s1watchparty