



# COMMON EUROPE CONGRESS 2026

**14 - 17 June**  
**Lyon, France**

The largest conference in Europe  
for solutions around IBM Power (IBM i, AIX, Linux) & IBM Storage



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EVENTS

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## SQL on steroids - deep dive

**Niels Liisberg**

Chief architect

Sitemule - System & Method A/S

Copenhagen

Denmark

CEC2026 Lyon





# Who is Niels Liisberg?

- Chief architect - System & Method A/S – Denmark
- IBM Power evangelist
- “The doctor” – modernization consultant
- Father to **IceBreak™** – Application server for ILE / RPG
- Architect of **Sitemule™** – Web and microservice platform for IBM i
- CEAC – Common Europe Advisory Council member
- Devoted to open source:
  - My stuff <https://github.com/NielsLiisberg>
  - ILEastic <https://github.com/sitemule/ILEastic>
  - noxDB <https://github.com/sitemule/noxdb>
  - Gist <https://gist.github.com/NielsLiisberg>
  - VSCode [RPG/SQL/Debugger](#)
- Founder of **IBM Power CPH**
- IBM Champion 2019 - 2026

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3 Results

 <b>RPG</b> Niels Liisberg ⬇️ 17.3K RPG for IBM i ★★★★★ FREE	 <b>IBM i SQL</b> Niels Liisberg ⬇️ 6.3K IBM i run SQL from ACS ★★★★★ FREE	 <b>IBM i system debugge</b> Niels Liisberg ⬇️ 2.8K IBM i run system debugger in ACS ★★★★★ FREE
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# The Agenda

- Build a sample schema
- Common Table Expressions
- Recursive SQL
- Regular expressions
- Compound statements
- Stored procedures
- User defined Functions
- User defined Table Functions
- JSON
- AI - SQL Client
- XML
- Service consuming
- Geospatial
- SELF SQL Exception Logging facility
- SQL Services
- SQL Triggers
- Debugger

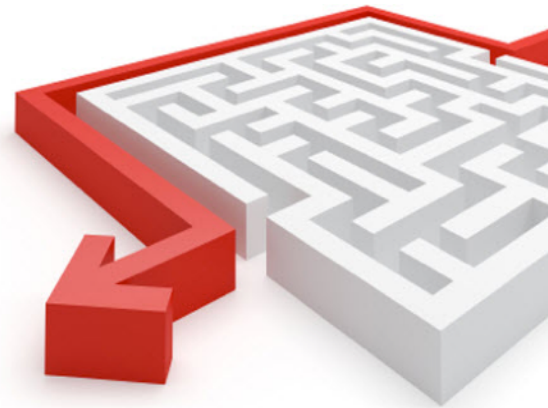
A large blue speech bubble with a white drop shadow, pointing towards the bottom right. It contains the text "Everything on IBM i Live..Live..Live".

Everything on IBM i  
Live..Live..Live





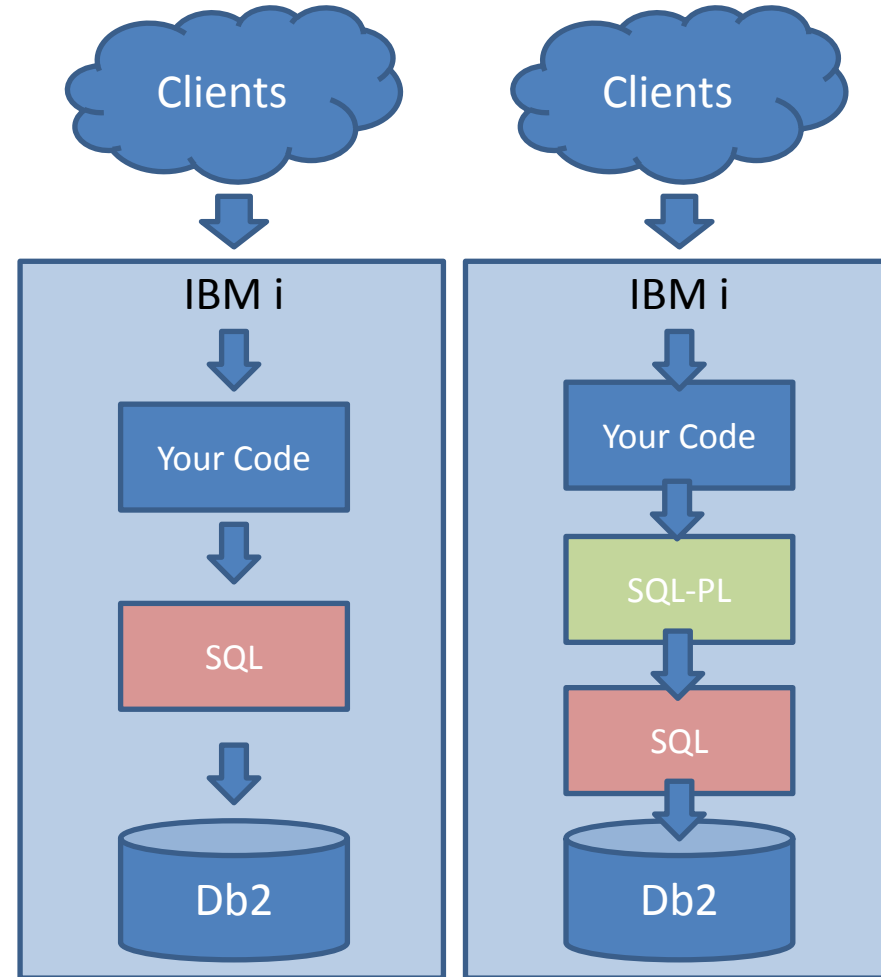
# noSQL Why?





## Why is this important?

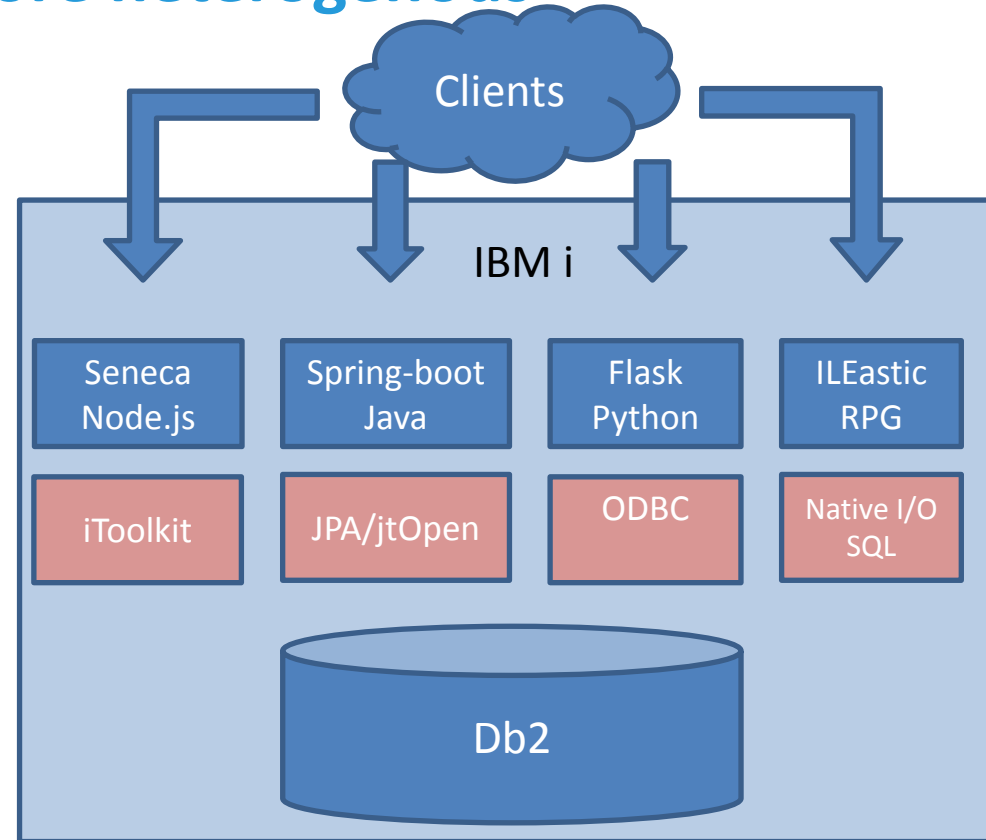
- I am a big fan of microservices !
- I am not a stored procedure fan by nature!
- I love simplicity !
- Why introduce extra disturbing layer?





# Applications are getting more heterogenous

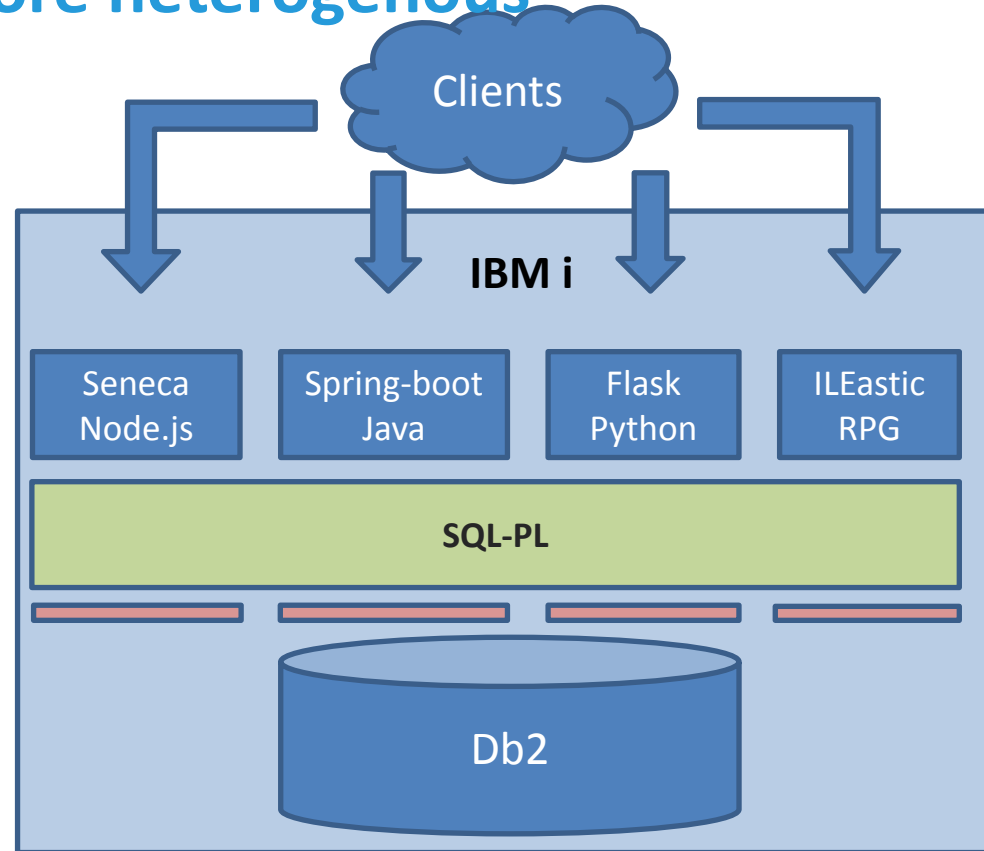
- Spreading I/O and logic over different environments
- Hard to test
- Hard to migrate to other language
- Entanglement to database
- No easy DevOps
  - Hard to deploy





# Applications are getting more heterogenous

- Everybody knows SQL
- Reuse H-R everywhere
- Easy implementation in microservices
- I/O and SQL stays in same environment
- Store SQL-PL in git
- Unit test SQL-PL
- Easy to deploy





## It's demo time !!

- The tutorial is on my GitHub repo:
  - <https://github.com/NielsLiisberg/sql-on-steroids>
  - 1) Clone it with VSCode
  - 2) OR - download the .zip
  - Put it on your desktop ( or where ever you like)
  - Run the samples with Db2 for i in VSCode and/or ACS

