Things Databases Don't Do

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"Forewarned, forearmed; to be prepared is half the victory."

Miguel de Cervantes

We'll talk about Things DBs don't do But...



... they say they do



... we all need



... software engineers need



... are cool and cutting edge

Databases don't do, but sometimes claim to do...



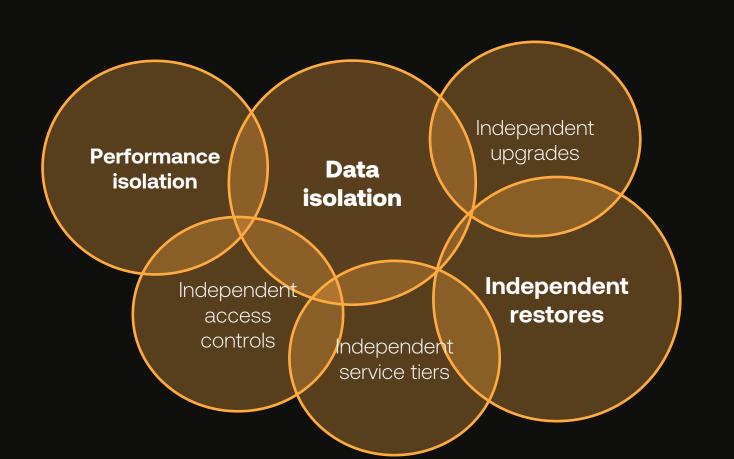
"A Database can't do everything but a data platform could"

--Sriram Subraminian, Nile Platform, CEO

Things we all need DBs to do

Soft Deletes

Tenant-awareness

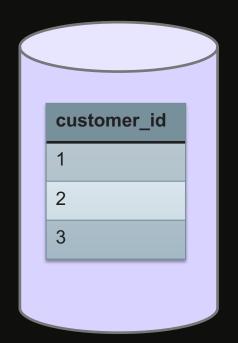


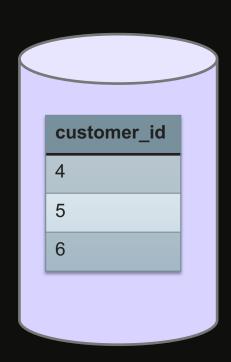


Pool model

Tenant 1 Tenant 2 Tenant 3

Isolated model

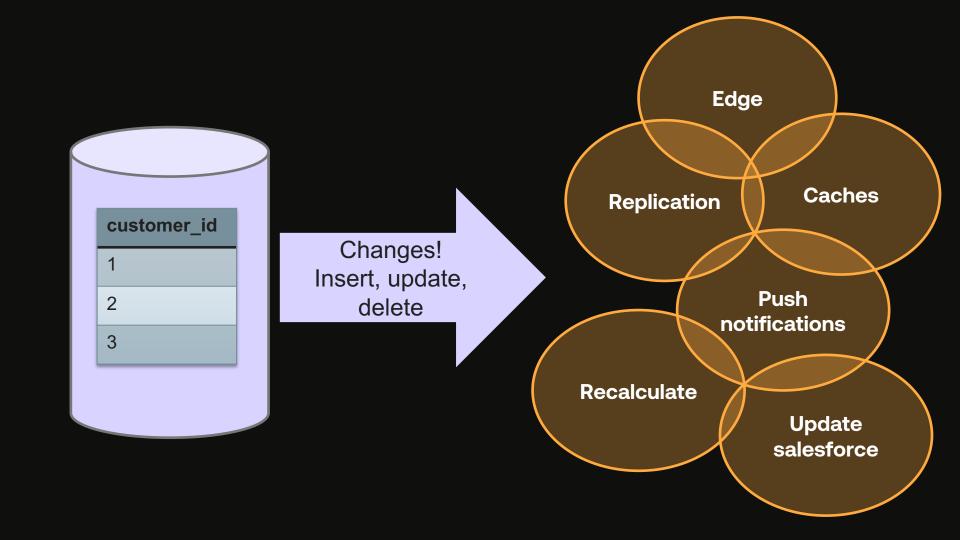


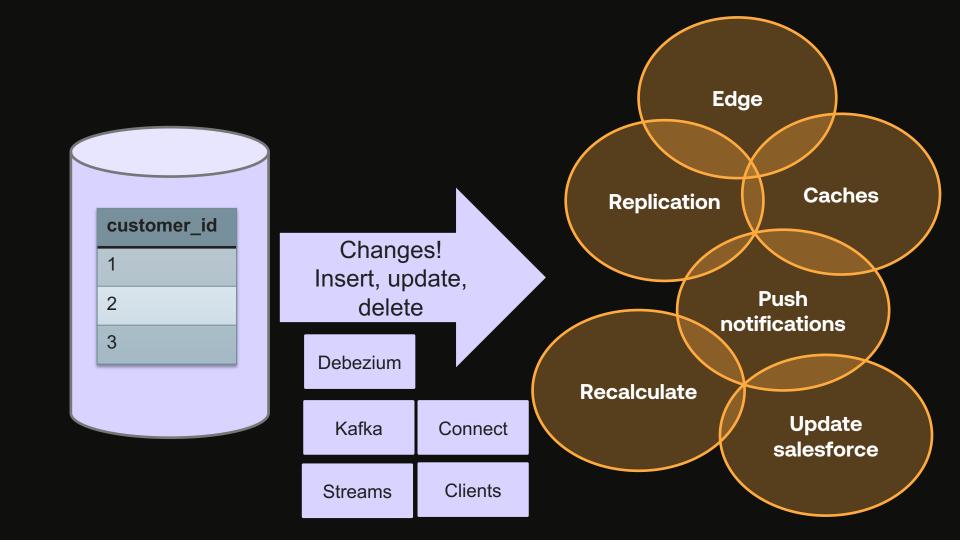




DB Shard A DB Shard B DB Shard C

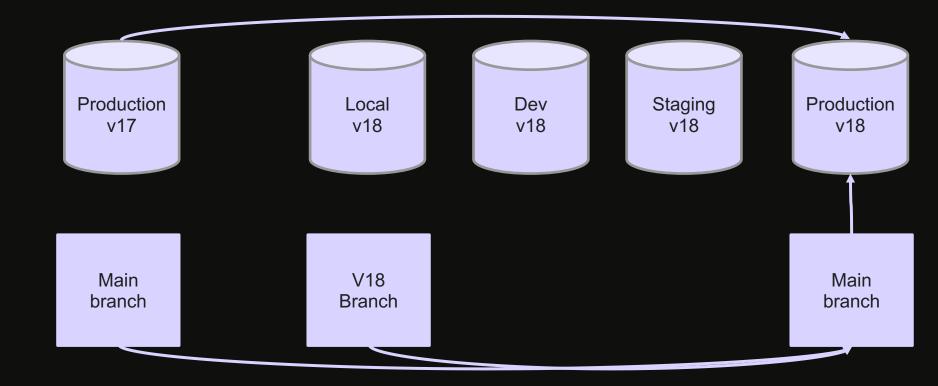
Easy way to get change history





Things software engineers need DBs to do

Version Control for Schema Changes



SQL + APIs

ralaat aga aay

Select age, count() from people Group by age

ageGroup =
 dfPpl.groupBy("age")
 Print(ageGroup.count())

Select age, count()
from people
Where gender = "female"
Group by age

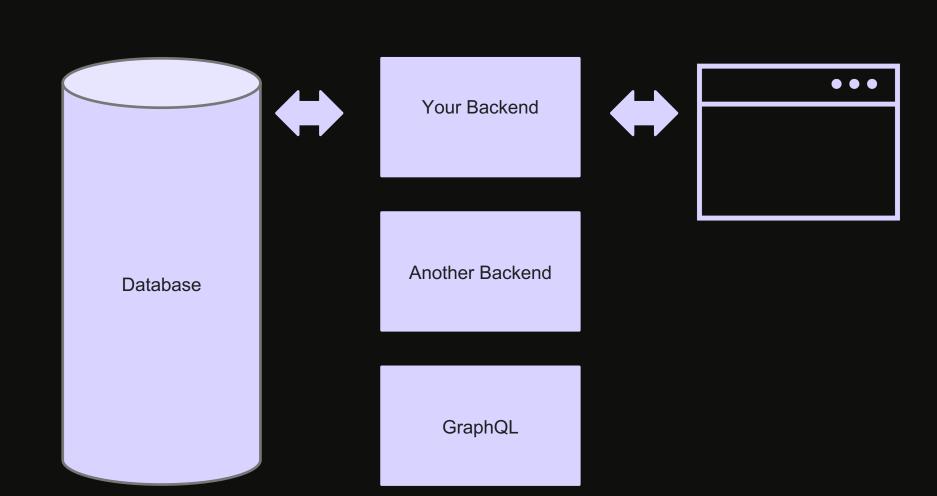
ageGroup =
 dfPpl.groupBy("age")

fOnly = ageGroup.filter(
 col("gender")
 .like("female))

Print(ageGroup.count())

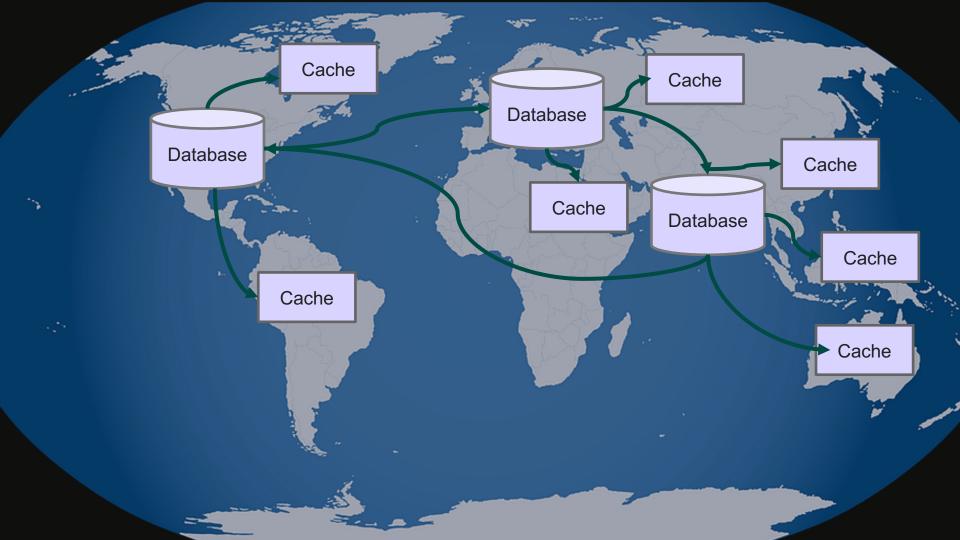
Print(f0nly.count())

Modern Protocols



DB Features of the Future

Global



Intelligent and Adaptive

Summary



Don't expect DBs to do everything



Do keep in mind all the things DBs don't do – and do the needful



Do keep an eye for DBs that do more for you.



Thank you for attending!



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https://www.youtube.com/@saas-dev