



Databases: A History of Places to Put Your Stuff



aiven

DELLTechnologies



“

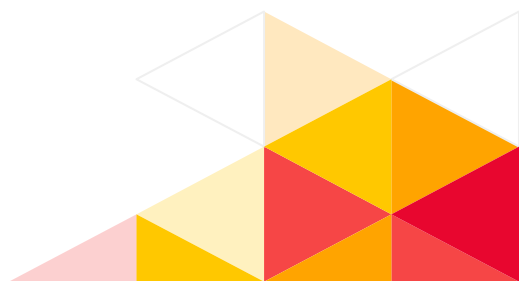
It's like one person 8 years ago wrote the slappingest piece of database marketing copy known to man and everyone else remixed it like they're trying to get away with plagiarizing a high school book report.

- *Kat, complaining on Twitter*



Damn that's a lot of databases

in-memory, active, cloud, data warehouse,
deductive, descriptive, document-oriented,
embedded, federated, heterogeneous,
graph, array, hypertext, knowledge base,
mobile, operational, parallel, probabilistic,
real-time, spatial, temporal,
terminology-oriented, unstructured



The 1950s

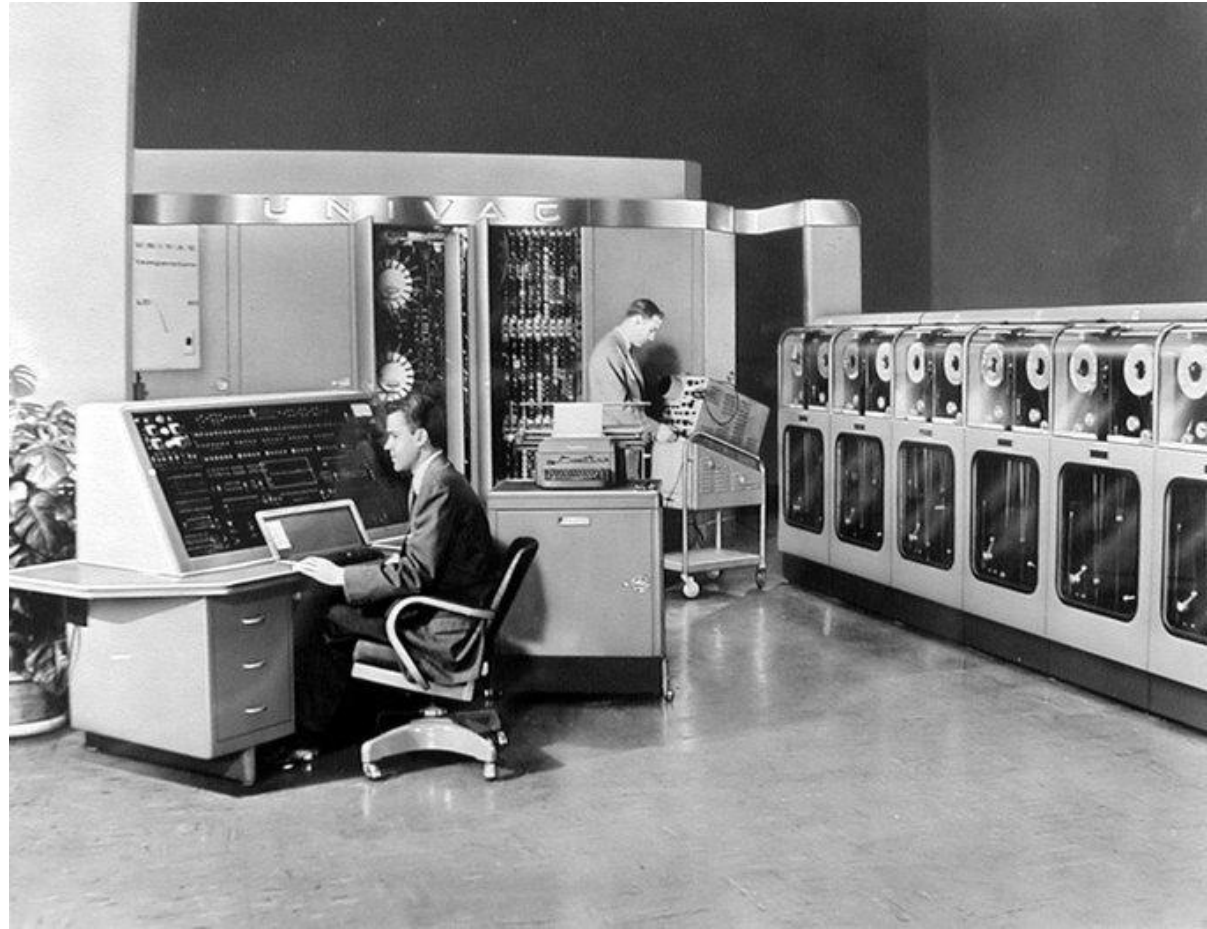




1951

Univac I

First magnetic tape





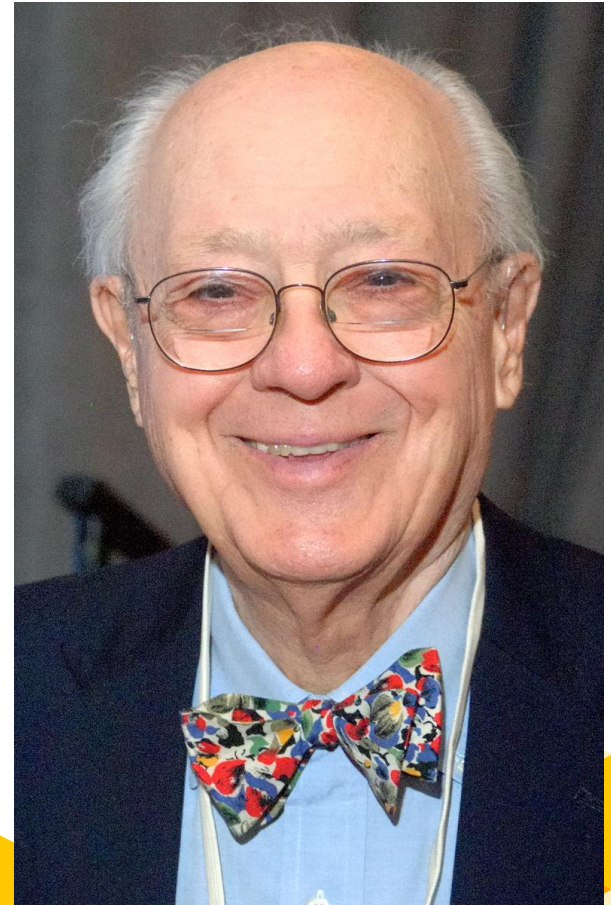
1956

IBM 305 RAMAC
First disc storage



1961

The first DBMS
Integrated Data store
Charles Bachman



The 1970s





Edgar Codd, the top gun of tables

Diagram illustrating a relational database structure with two tables and a key relationship.

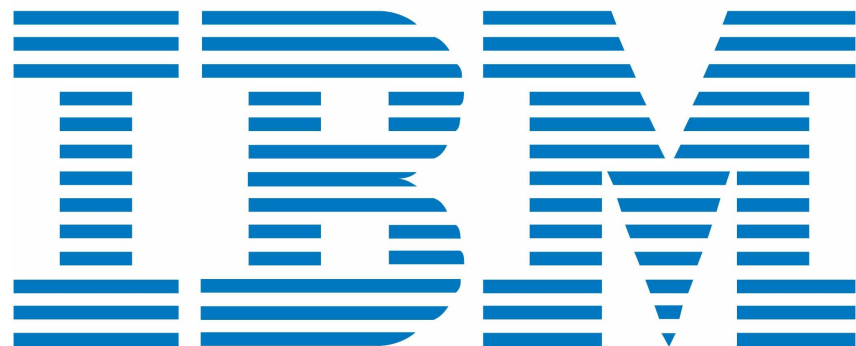
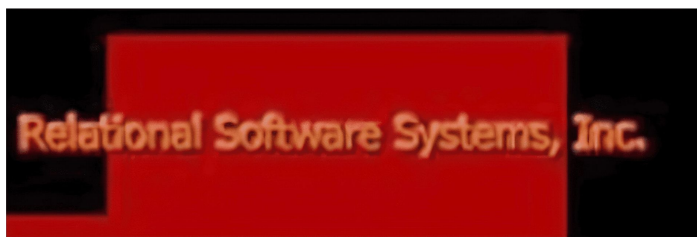
| login | first | last |
|-------|--------|---------|
| mark | Samuel | Clemens |
| lion | Lion | Kimbro |
| kitty | Amber | Straub |

| login | phone |
|-------|--------------|
| mark | 555.555.5555 |

Annotations:

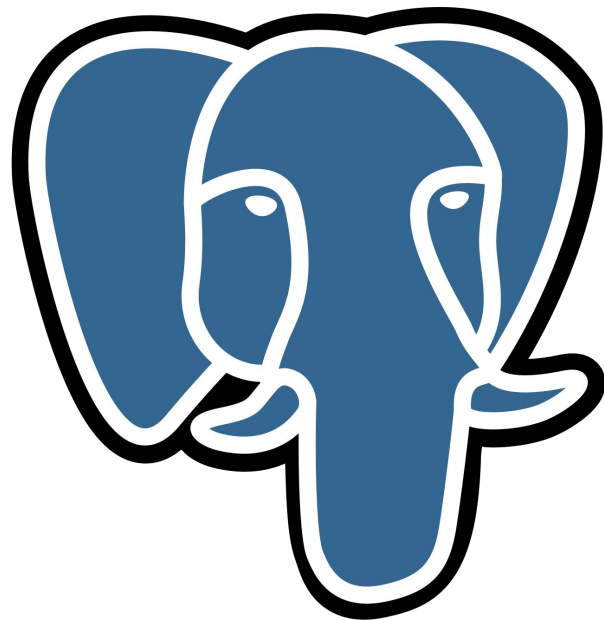
- A green arrow labeled **"key"** points from the **login** column of the first table to the **login** column of the second table.
- The second table is labeled **"related table"** below it.

How relational databases work



ORACLE AND IBM ENTER THE CAGE

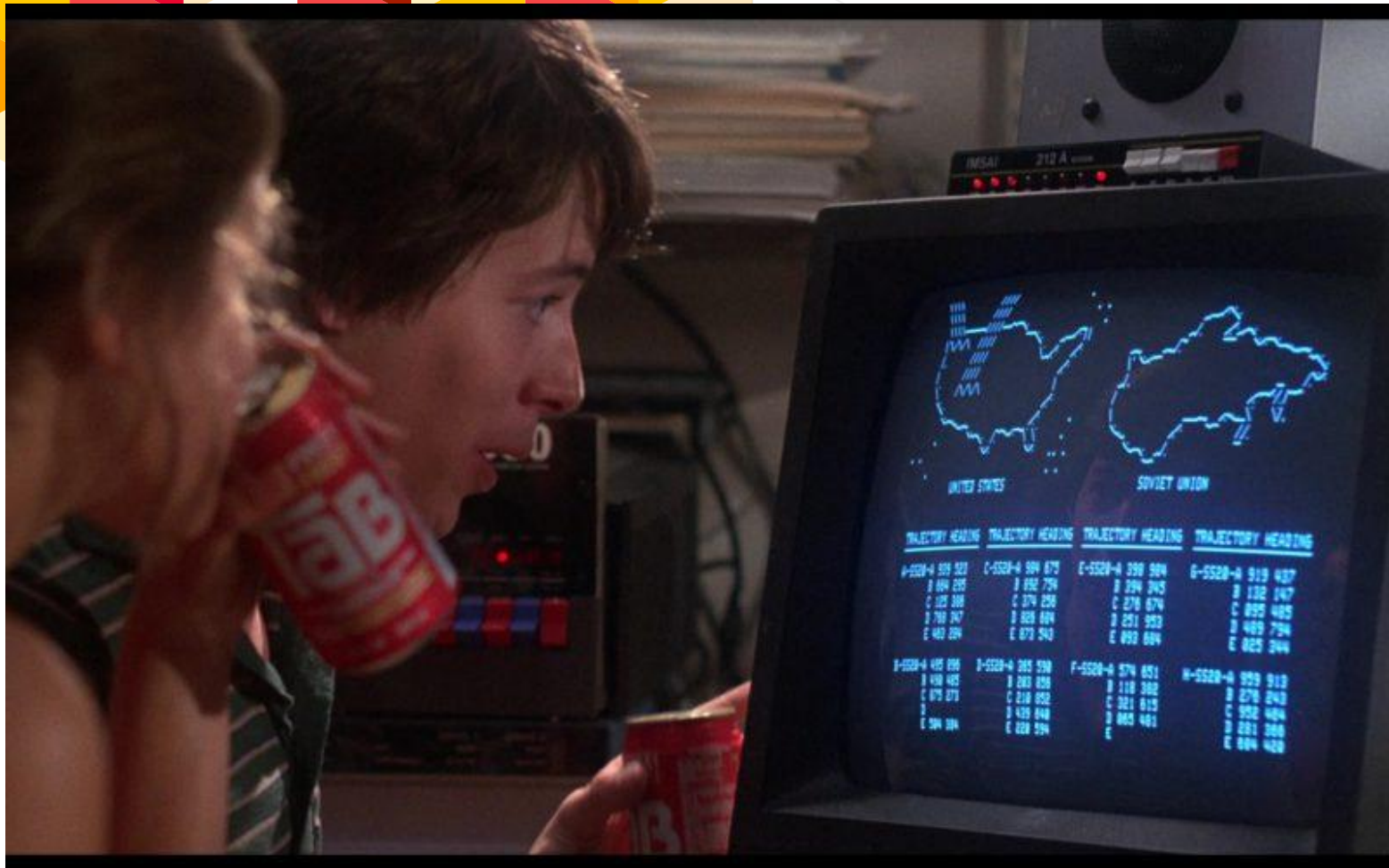


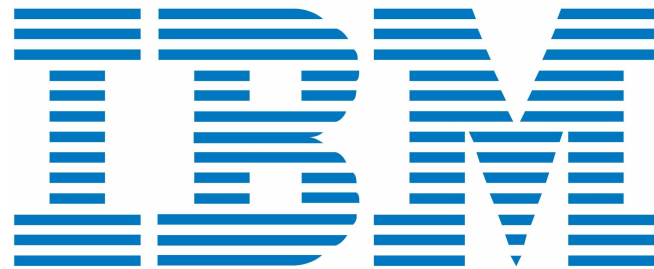


TIME FOR POSTGRES

The 80s







The 90s



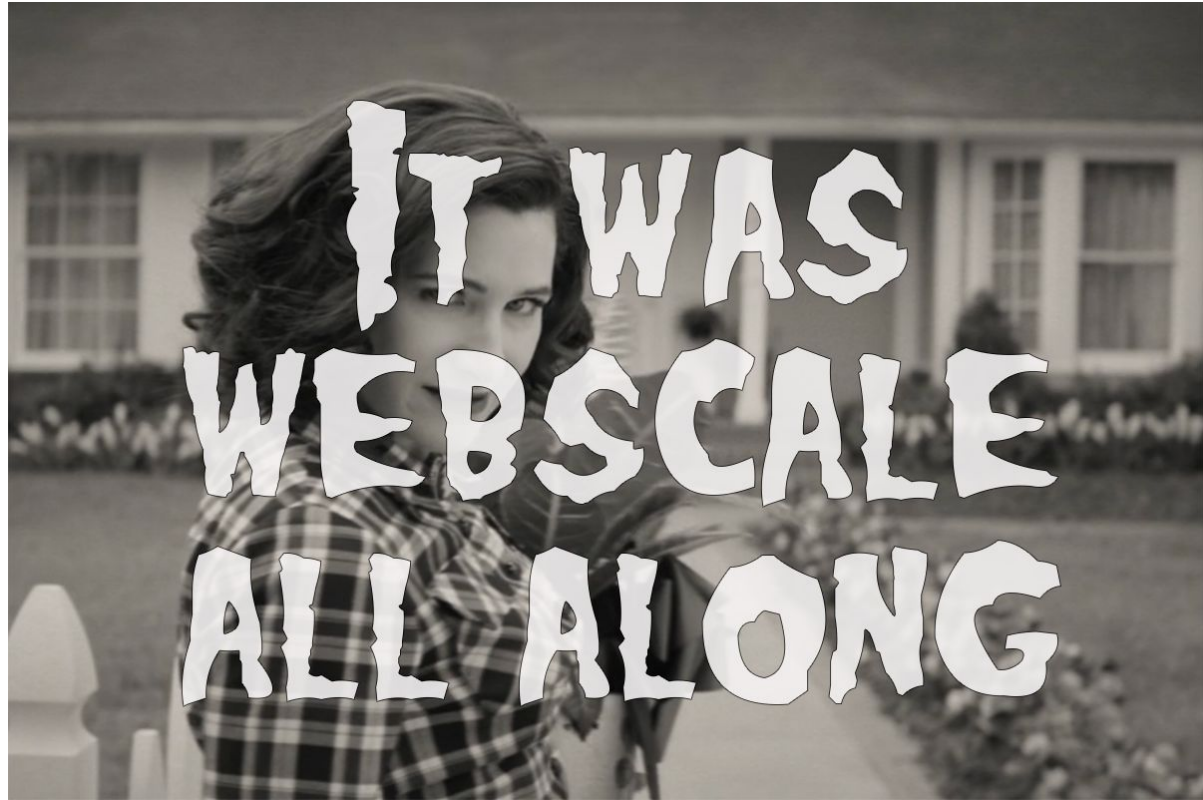
**KAT RESIST THE URGE TO JUST PUT A BIG PHOTO OF GRADY
BOOCH HERE, HE KNOWS YOU USE HIM IN HIS TALKS AND IT'S
PROBABLY GETTING CREEPY**





The 2000s and beyond



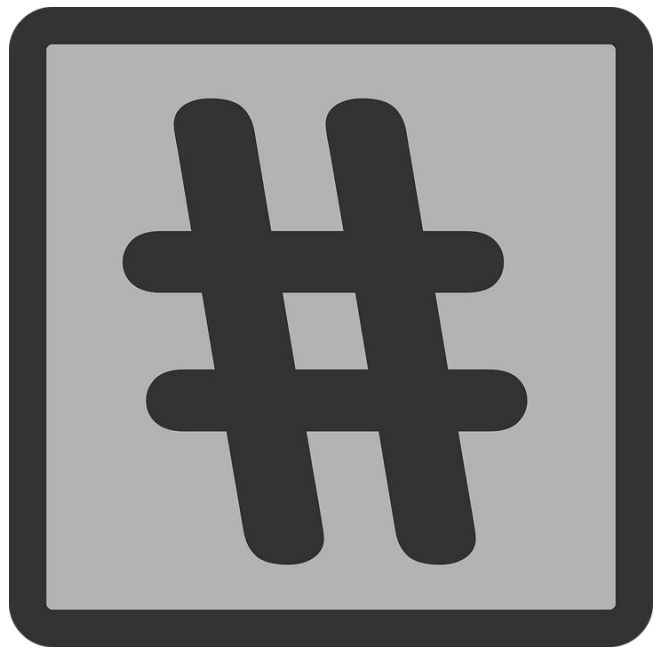




<https://bit.ly/its-webscale>







#nosql

key-value



graph



column



document



NoSQL isn't just
document model



ACID vs CAP theorem





**The World Wide Webs is technically just a large,
distributed hypertext database**





What have we learned?



KAT

Twitter - @dixie3flatline

Bluesky - @kat.lol

GitHub - katcosgrove

LinkedIn - linkedin.com/in/katcosgrove

MATTY

Twitter - @mattstratton

Mastodon - @mattstratton@hachyderm.io

Bluesky - @matty.wtf

GitHub - mattstratton

Slides - speaking.mattstratton.com

LinkedIn - linkedin.com/in/mattstratton



REFERENCES

- [A Timeline of Database History & Database Management](#)
- [Wikipedia entry for databases and history](#)
- [IBM Information Management System](#)
- [MongoDB is Web Scale video](#)
- [Charles Bachman](#)



ATTRIBUTIONS

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