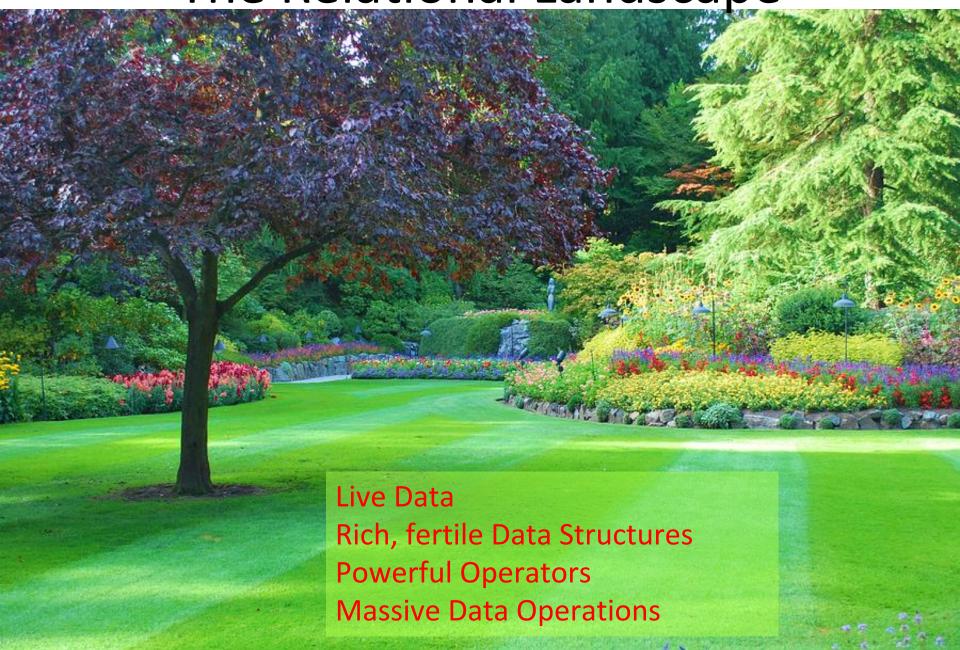
Excuse me, but is your data dead?

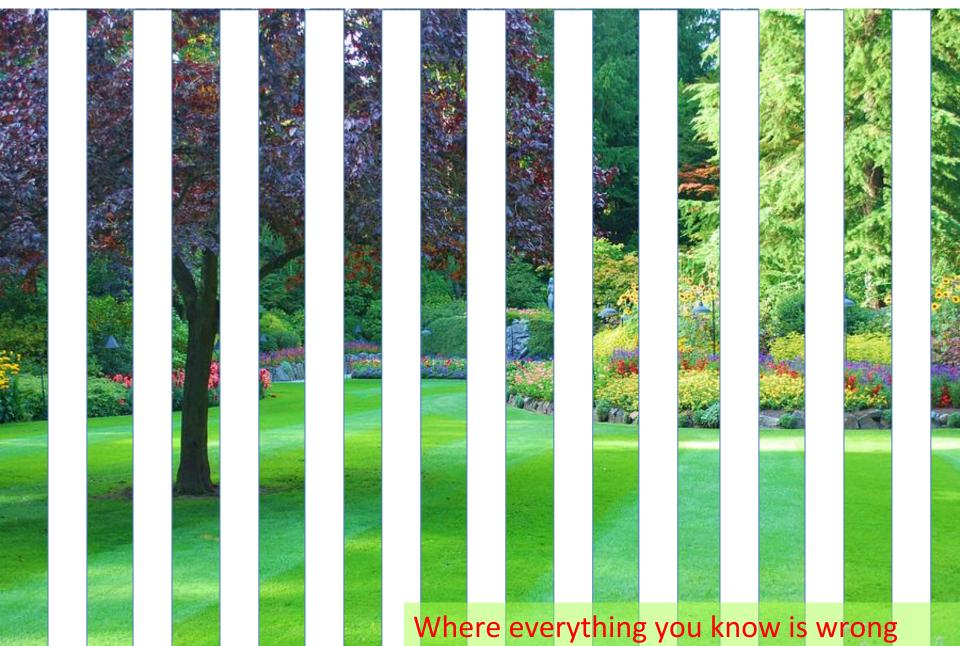
Toby Lehman Aerospike



The Relational Landscape

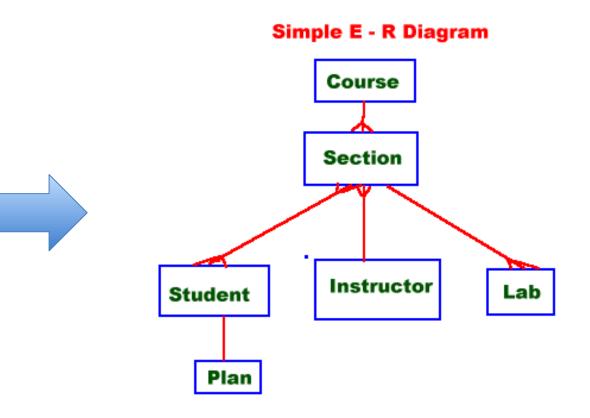


Stonebraker Land



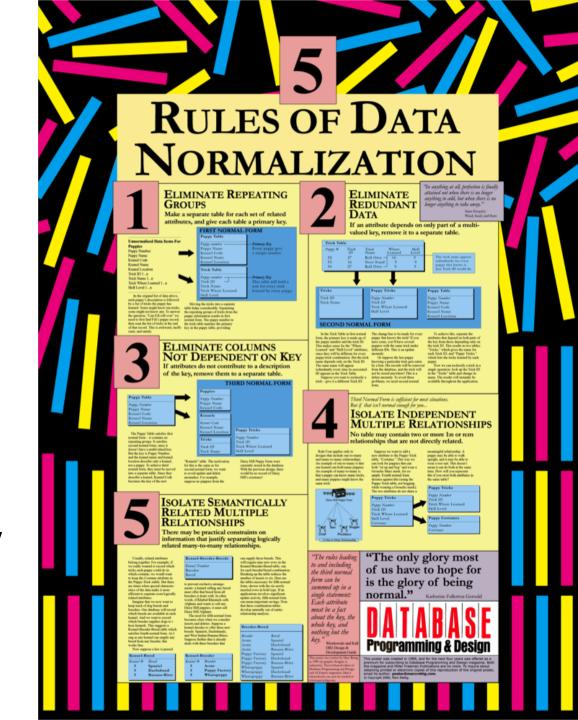
The Joy of Data Modeling

- Section
- Course #
- Course Name
- # Seats
- # Enrolled
- Room
- Time
- Days
- Instructor
- Students

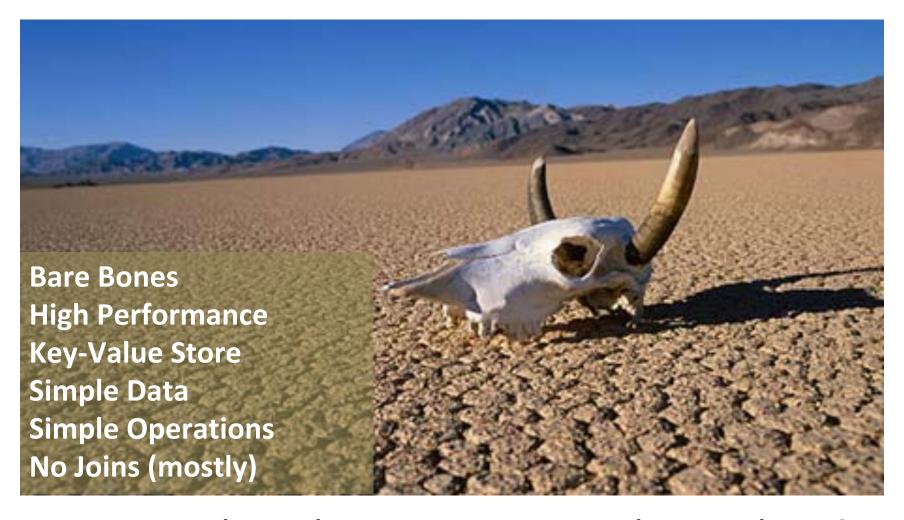


Embrace Normalization

- The Famous Puppy Poster shows the complexities of normalization
- Suffer the penalties of joining the data back again.
- Why Normalize?
 Because LIVE data may have Update or Delete problems if copied.

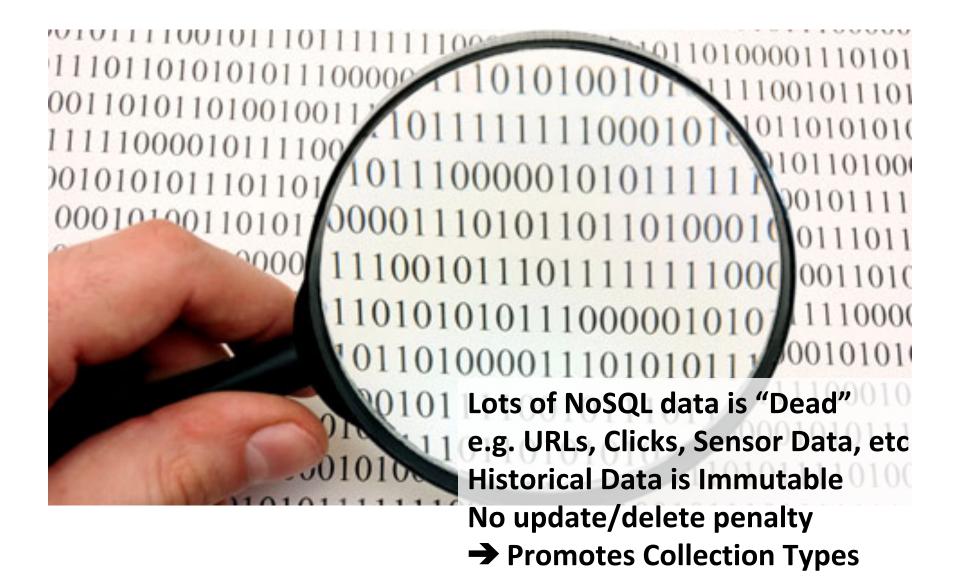


The NoSQL Landscape



But ... What about 1:N, N:M Relationships?

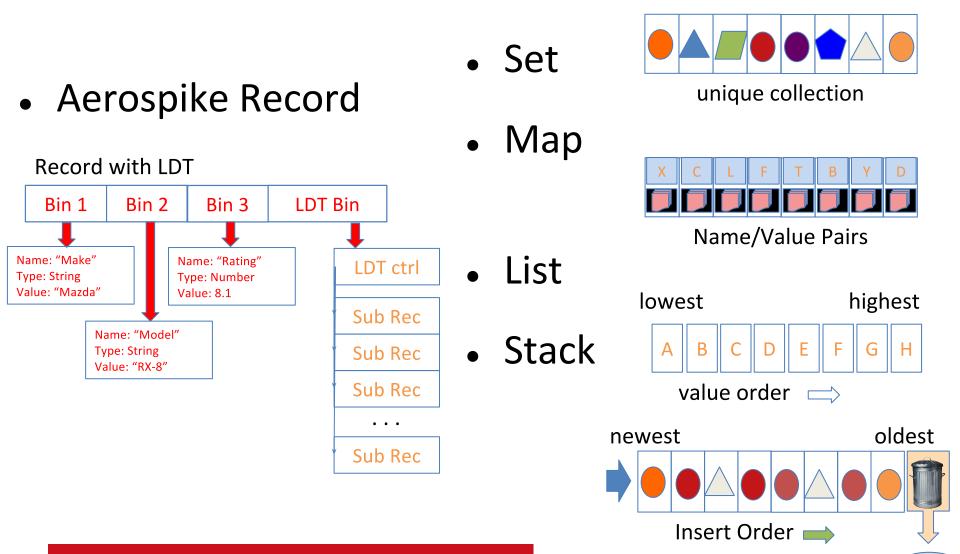
Let's Look More Closely at the Data



The NoSQL Landscape Object Collections Can Satisfy Relationships



Aerospike Large Data Types



VEROSPIKE

Summary

- In NoSQL Land, much of the data captured is historical (dead data)
- No penalty, other than increased storage, to keep copies
- Often a huge performance win to read a collection as part of a record (much like a pre-computed materialized join)
- Different collection types (stack, list, map, set)
 match the different application access patterns
- Questions: toby@aerospike.com