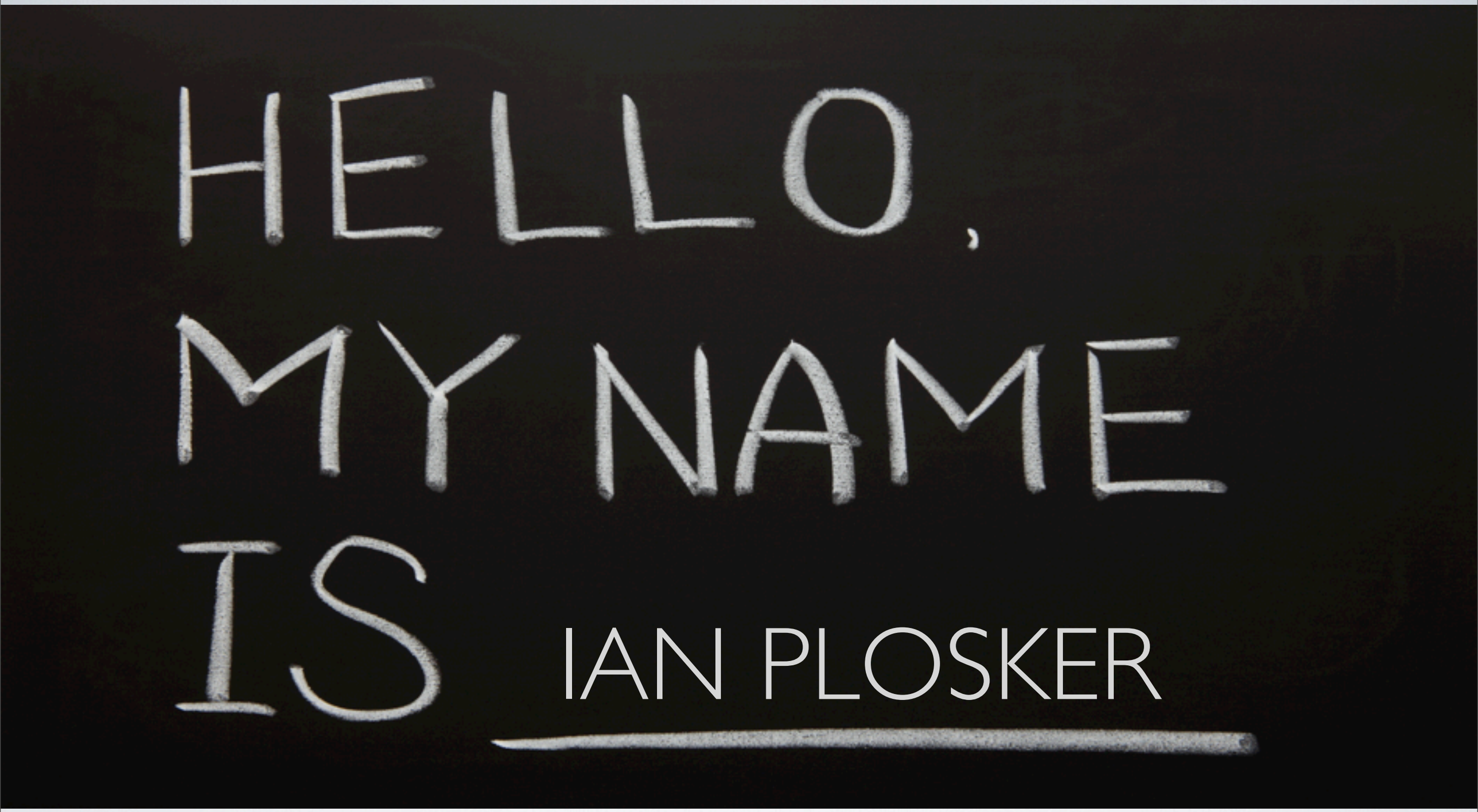
SWEDEN'S NEXT top model

DATA

OR

YOU'RE DOING IT WRONG



Technical Lead, International Operations
Basho Technologies

WHO IS

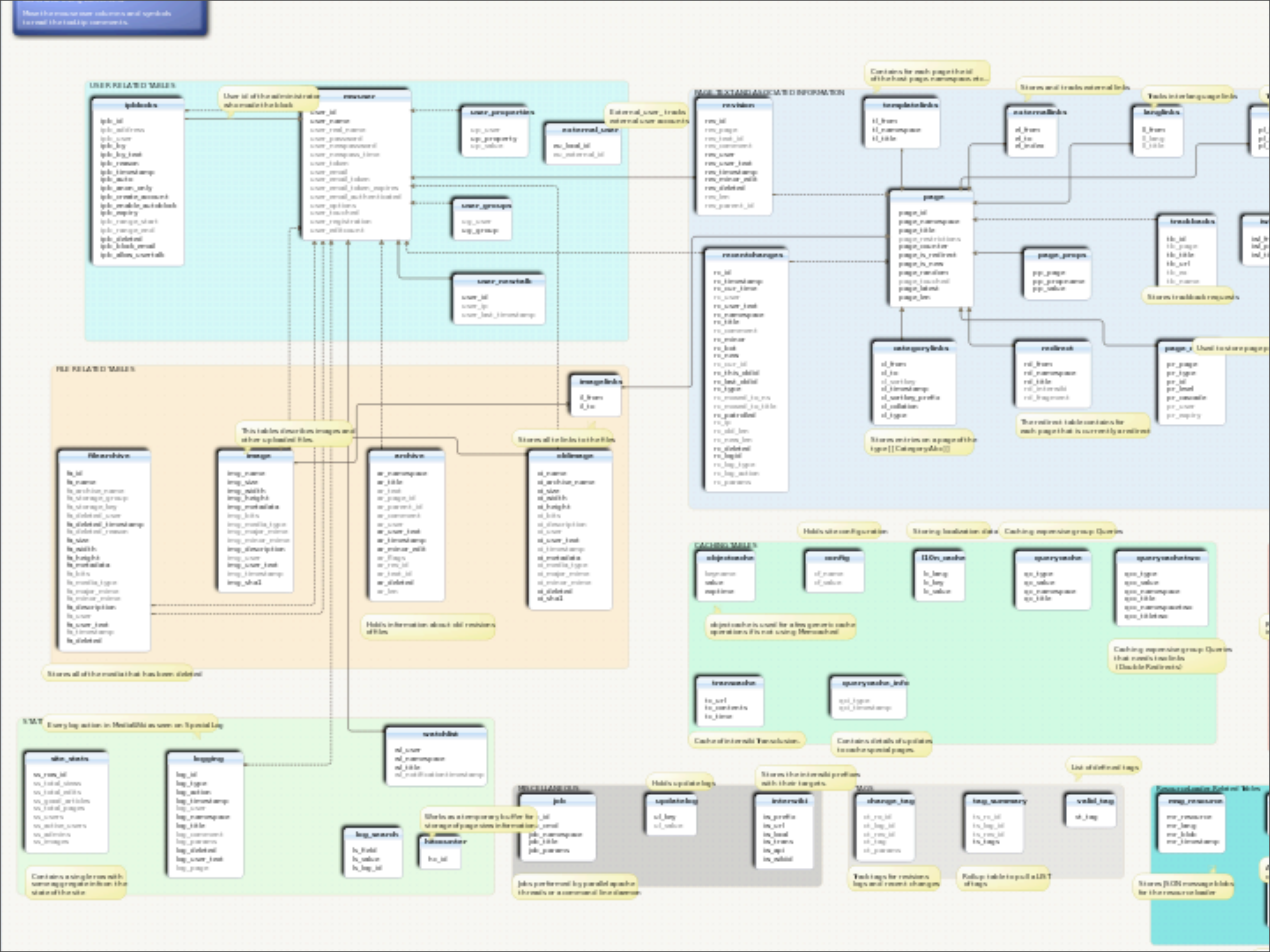
basho

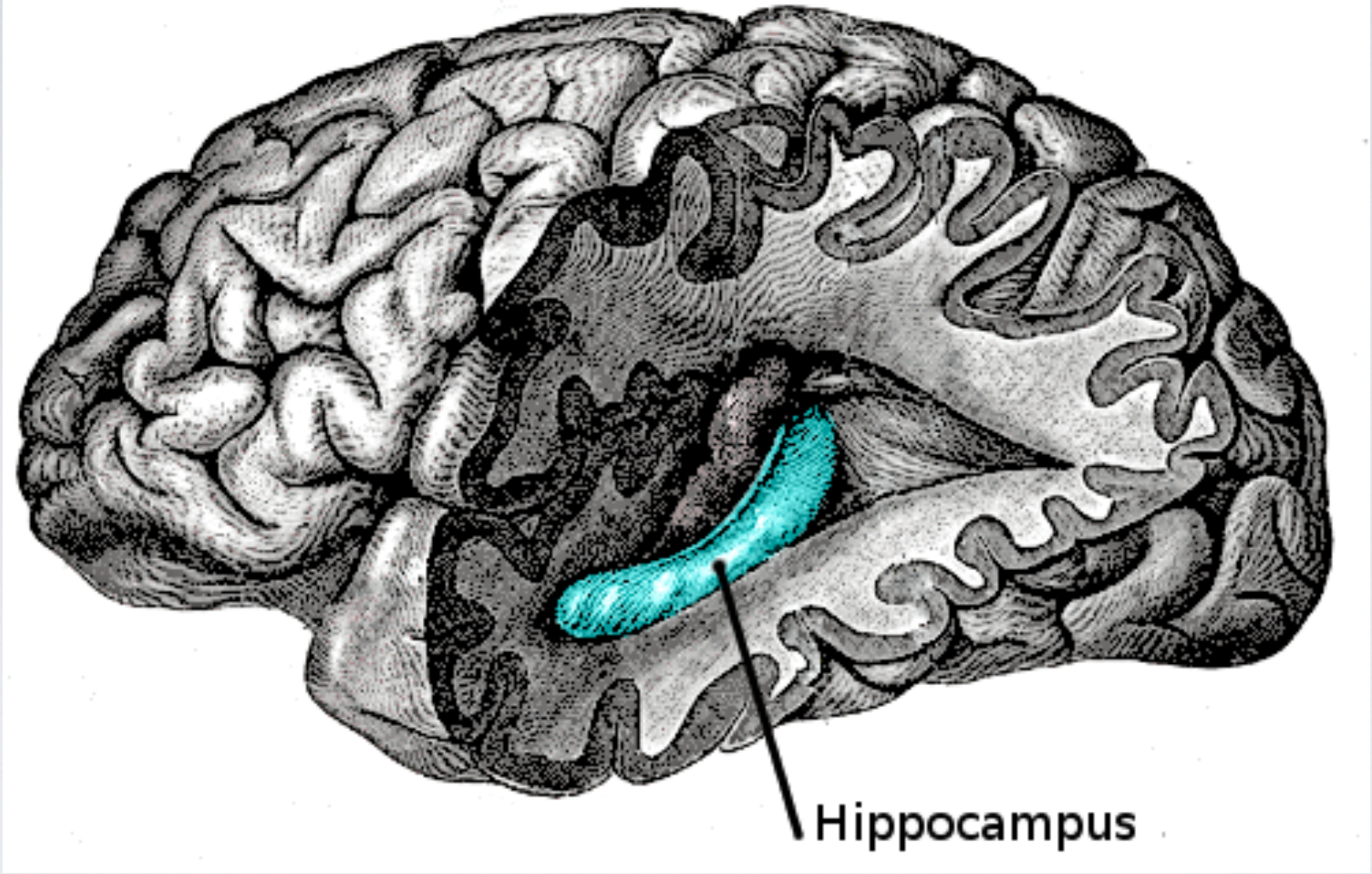
?

WE MAKE


Basho
DISTRIBUTED SYSTEMS EXPERTS

DATABASE


USER RELATED TABLES
ipblocks
user_properties
external_user
user_groups
user_newtalk
PAGE TEXT AND ASSOCIATED INFORMATION
revision
templatelinks
externallinks
langlinks
page
recentchanges
page_props
trackbacks
categorylinks
redirect
FILE RELATED TABLES
imagelinks
filearchive
image
archive
oldimage
watchlist
CACHING TABLES
objectcache
config
l10n_cache
querycache
querycachetwo
transcache
querycache_info
site_stats
logging
log_search
hitcounter
MISCELLANEOUS
job
updatelog
interwiki
TAGS
change_tag
tag_summary
valid_tag
msg_resource

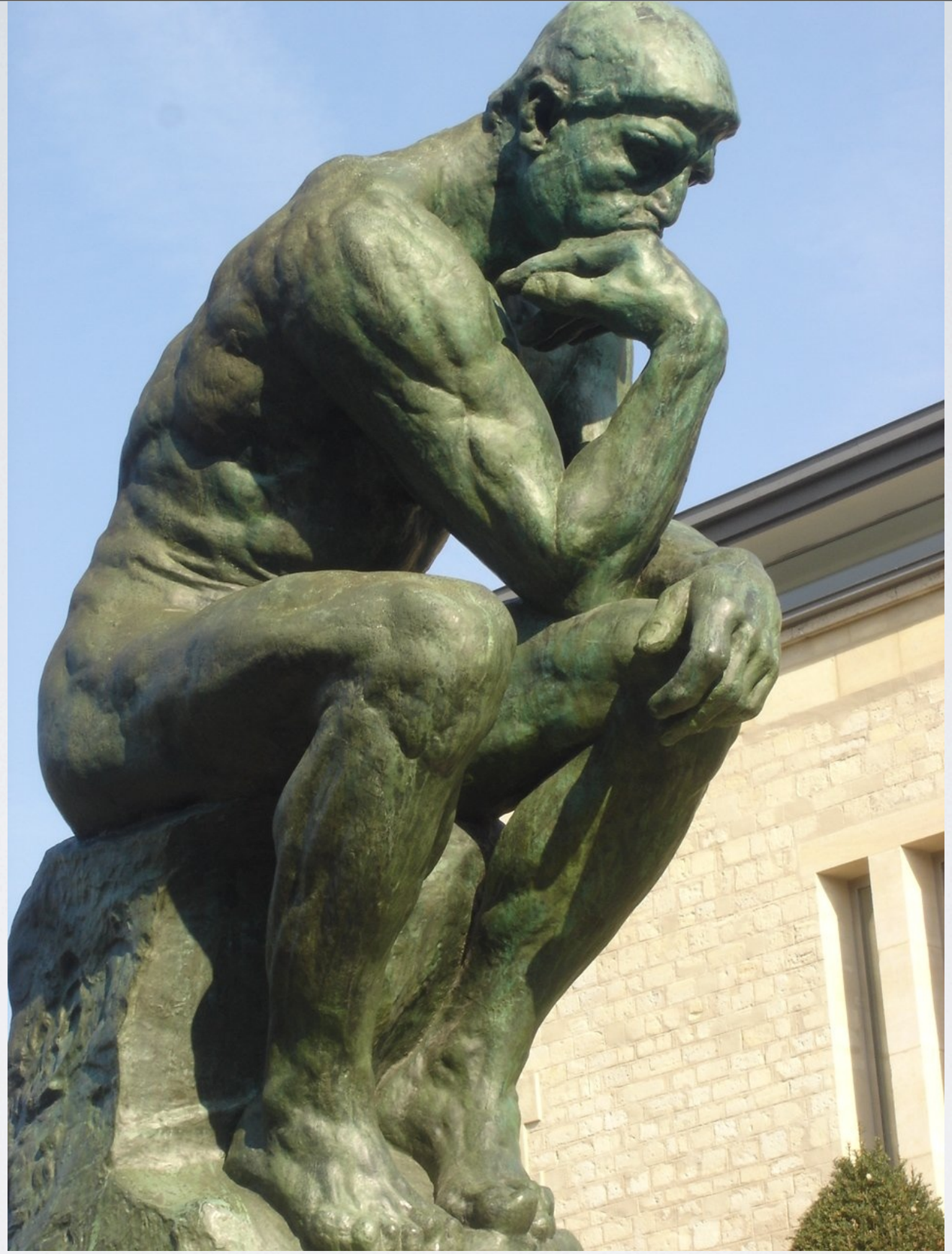


THIS WORKS AS LONG AS YOU HAVE GOBS OF MEMORY

ORMs & ODMs

NOSQL

HOW TO DATA MODEL



HAVE A THINK

STORE YOUR DATA RIGHT

FIT YOUR DATA MODEL TO YOUR APP


YOUR DATA AND QUERY MODEL
SHOULD LIVE IN HARMONY

```
SELECT SUM(offerTotal) as theOfferTotal, SUM(lienTotal) AS theLienTotal, SUM(CLVtotal) AS
theCLVtotal, SUM(estGrossProfitTotal) AS theESTGPtotal FROM (( SELECT
COALESCE(SUM(COALESCE(offerAmount, 0)), 0) AS offerTotal, COALESCE(SUM(COALESCE(amount, 0) +
COALESCE(legalFees, 0) + COALESCE(costs, 0)), 0) AS lienTotal, COALESCE(SUM(((amount + legalFees
+ costs) * (1 + (rateOfInterest / 100) * (FLOOR((UNIX_TIMESTAMP(NOW()) -
UNIX_TIMESTAMP(dateOfAttachment)) / 86400) / 365)))), 0) AS CLVtotal, COALESCE(SUM((((amount +
legalFees + costs) * (1 + (rateOfInterest / 100) * (FLOOR((UNIX_TIMESTAMP(NOW()) -
UNIX_TIMESTAMP(dateOfAttachment)) / 86400) / 365))) - COALESCE(offerAmount, 0))), 0) AS
estGrossProfitTotal FROM lienTable AS theLienTable, propertyTable, property_lien,
stateInterestTable, data, judgementLienTable WHERE theLienTable.lienID = property_lien.lienID AND
propertyTable.propertyID = property_lien.propertyID AND propertyTable.state =
stateInterestTable.state AND theLienTable.lienID = judgementLienTable.lienID AND
theLienTable.lienStatusID IN (65, 70, 75) AND data.id = (SELECT data.id FROM lienTable, data,
data_lien WHERE lienTable.lienID = data_lien.lienID AND data_lien.id = data.id AND category = 15
AND lienTable.lienID = theLienTable.lienID ORDER BY data.id DESC LIMIT 1) AND dateOfAttachment !=
0 AND UNIX_TIMESTAMP(NOW()) > UNIX_TIMESTAMP(dateOfAttachment) AND FLOOR((UNIX_TIMESTAMP(NOW()) -
UNIX_TIMESTAMP(dateOfAttachment)) / 86400) > 0 AND rateOfInterest > 0 ) UNION ( SELECT
COALESCE(SUM(COALESCE(offerAmount, 0)), 0) AS offerTotal, COALESCE(SUM(COALESCE(amount, 0) +
COALESCE(legalFees, 0) + COALESCE(costs, 0)), 0) AS lienTotal, COALESCE(SUM(((amount + legalFees
+ costs) * (1 + (rateOfInterest / 100) * (FLOOR((UNIX_TIMESTAMP(NOW()) -
UNIX_TIMESTAMP(judgementDate)) / 86400) / 365)))), 0) AS CLVtotal, COALESCE(SUM((((amount +
legalFees + costs) * (1 + (rateOfInterest / 100) * (FLOOR((UNIX_TIMESTAMP(NOW()) -
UNIX_TIMESTAMP(dateOfAttachment)) / 86400) / 365))) - COALESCE(offerAmount, 0))), 0) AS
estGrossProfitTotal FROM lienTable AS theLienTable, propertyTable, property_lien,
stateInterestTable, data, judgementLienTable WHERE theLienTable.lienID = property_lien.lienID AND
propertyTable.propertyID = property_lien.propertyID AND propertyTable.state =
stateInterestTable.state AND theLienTable.lienID = judgementLienTable.lienID AND
theLienTable.lienStatusID IN (65, 70, 75) AND data.id = (SELECT data.id FROM lienTable, data,
data_lien WHERE lienTable.lienID = data_lien.lienID AND data_lien.id = data.id AND category = 15
AND lienTable.lienID = theLienTable.lienID ORDER BY data.id DESC LIMIT 1) AND
COALESCE(dateOfAttachment, 0) = 0 AND judgementDate != 0 AND UNIX_TIMESTAMP(NOW()) >
UNIX_TIMESTAMP(judgementDate) AND FLOOR((UNIX_TIMESTAMP(NOW()) - UNIX_TIMESTAMP(judgementDate)) /
86400) > 0 AND rateOfInterest > 0 ) ) AS theBigTable;
```

THIS IS NOT HARMONY

YOUR DATA AND QUERY MODEL

DON'T DENORMALISE FOR THE SAKE OF DENORMALISING

DATA QUERIED TOGETHER SHOULD BE STORED TOGETHER

TIME BOXING

A NOTE ON DATA SECURITY

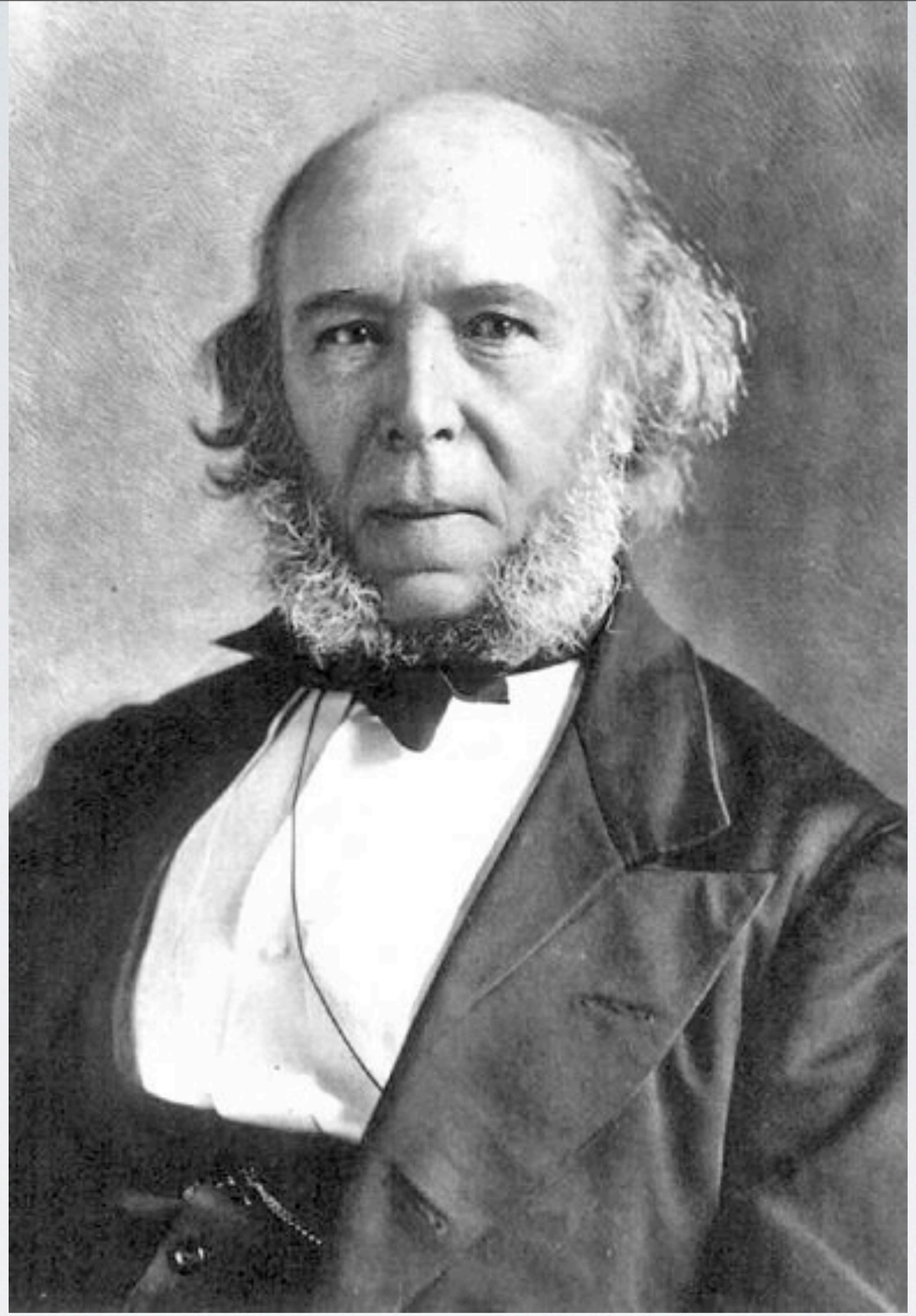
KEEP YOUR DATA LOCKED UP THROUGH YOUR ENTIRE STACK

USE NATURAL KEYS

IT ISN'T JUST YOUR DATABASE THAT NEEDS TO BE SCALABLE

YOUR DATA MODEL NEEDS TO BE SCALABE

CONVERGENT/COMMUTATIVE REPLICATED DATA TYPES



PICK THE SOLUTION THAT FITS YOUR PROBLEM

ABOVE ALL

KISS


EAGLE JOBS NET
ለክፍት የስራ ቦታ መረጃ ለገሐር ቅርንጫፍ
0911 134886/0912 058424/0912
ለበለጠ መረጃ ከማስታወቂያው ጀርባ ያናግሩን

HELP WANTED