


THE SKY'S THE LIMIT

The Next 10 Years of Data Infra on Clouds



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Data Council Austin,
March 2022



NICE TO MEET YOU

I'm Mingsheng Hong

15+ Years of Experience in Data & ML

[linkedin.com/in/mingshenghong](https://www.linkedin.com/in/mingshenghong)

PREVIOUS EXPERIENCE

Google Lead in ML & Data

Speaker in ML & data forums, Harvard Business School

Vertica Field CTO

Startup advisor, leadership coach

Hadapt Chief Data Scientist

Cornell CS (PhD, MS) specializing in Databases



STATE OF THE DATA CLOUDS

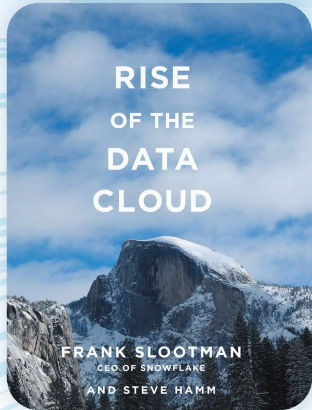
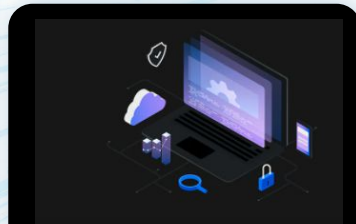
THE WALL STREET JOURNAL. Oracle's Cloud Business Grows

The enterprise technology company's cloud business saw 24% revenue growth from year earlier



'Cloud is a fundamentally more profitable business than on-premise databases,' Oracle CEO Safra Catz said.

PHOTO: MIKE BLAKE/REUTERS

IBM Db2
Warehouse on
Cloud

A fully managed, elastic
cloud data warehouse built

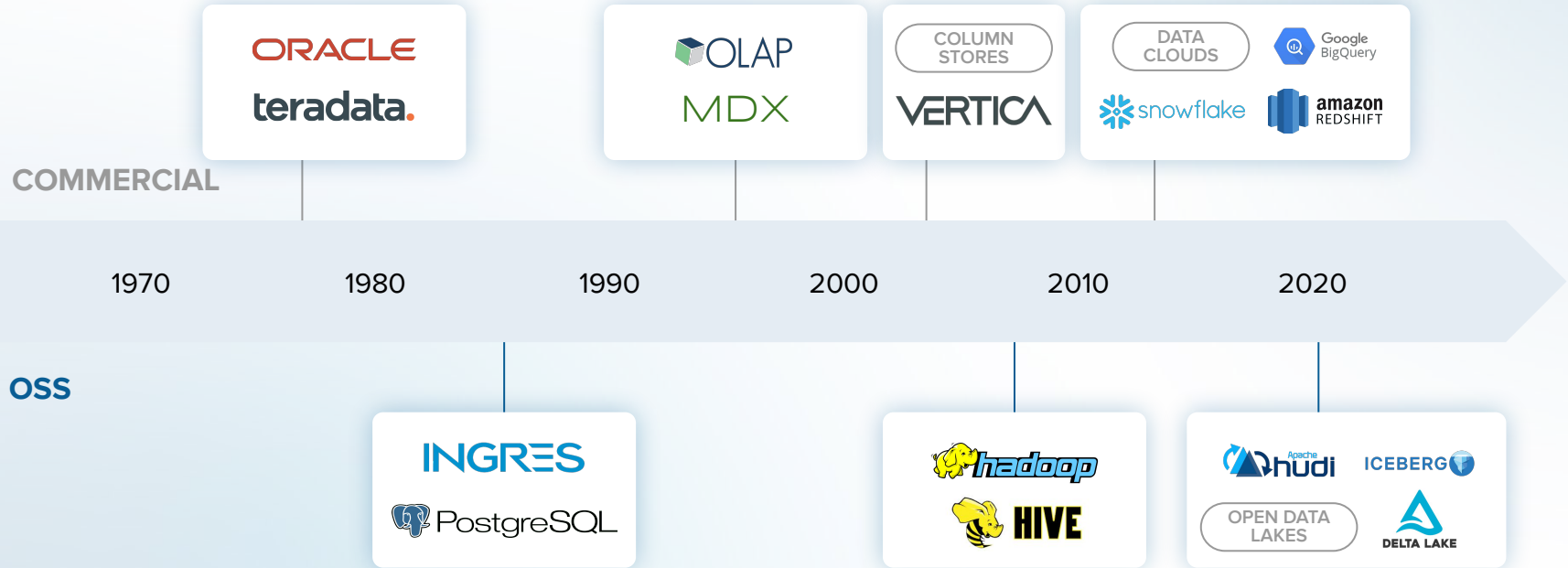


Amazon Redshift

HISTORY OF ANALYTICAL DATA MANAGEMENT (OLAP)

“If you want to know the future, look at the past.”

— ALBERT EINSTEIN



MINGSHENG'S CAREER STORY #1

CROSSING THE CHASM



TECHNOLOGY

MINGSHENG'S CAREER STORY #1'

CROSSING THE CHASM



TECHNOLOGY

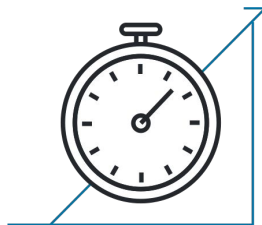
THROUGH USERS' LOOKING GLASSES

“ The only way to achieve the impossible is to believe it is possible.”

— ALICE KINGSLEIGH,
'ALICE THROUGH THE LOOKING GLASS'



Data or Infra Eng



Query Users
(e.g. data analysts,
scientists)



**CIO / CFO,
Management**

**THEIR
HIGHEST
PRIORITY**

Ease to deploy,
monitor, debug

Fast querying,
scalable, reliable

Pricing, alignment
with business



COMPLEXITY



OFFLOADING

WAITING

PRODUCTIVITY

ROI?

CONTROL



The background of the image is a collection of numerous blue spheres of various sizes, scattered across a light blue surface. One sphere, located in the upper right quadrant, is made of light-colored wood and stands out from the rest. The lighting creates soft shadows on the surface, giving the spheres a three-dimensional appearance.

MINGSHENG'S CAREER STORY #2:

BE A CONTRARIAN

MINGSHENG'S CAREER STORY #2:
BE A CONTRARIAN

**...EVEN TO THE
BIGGEST CONTRARIANS**



Mingsheng Hong
@mingshenghong



#BigData ,
#CloudComputing ... If you
hear these buzz words, you
need to run away as fast as
you possible can..." Said
@peterthiel, one of my
favorite contrarians:
[youtu.be/mgXKq9i9bjw?
t=...](https://youtu.be/mgXKq9i9bjw?t=...)

We're honored to be a
contrarian to The Master
Contrarian:getbluesky.io 😊
#startup

PREDICTIONS

(ARE HARD, ESPECIALLY ABOUT THE FUTURE)



Data or Infra Eng

Gone!
Only Product
Engineering Team



Query Users
(e.g. data analysts,
scientists)

Rich support on data
sources of querying
(business) logic

**Automagic performance
optimization**

Access to unlimited
compute resources



CIO / CFO,
Management

Charge data cloud
usage not based on
time, but biz value
generated?

A scenic landscape featuring a calm lake in the foreground, rolling green hills in the middle ground, and a range of mountains in the distance. The sun is low on the horizon to the right, creating a bright lens flare and casting a warm glow over the scene. The sky is a clear, deep blue. A small white streak, possibly a meteor or satellite, is visible in the upper left sky. A thin white horizontal line is positioned below the main title.

THE FUTURE & YOU

Let's change the world, one **QUERY** at a time.

Cost based Optimization ◦ → Workload based Optimization



“Above the clouds,
the sky is always blue.”

Thank you!

Mingsheng Hong, Co-Founder and CEO

 @mingshenghong

<https://getbluesky.io> (We are hiring!)