THE SKY'S THE LIMIT

The Next 10 Years of Data Infra on Clouds

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Data Council Austin,
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NICE TO MEET YOU

I’m Mingsheng Hong

15+ Years of Experience in Data & ML
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PREVIOUS EXPERIENCE

- Google Lead in ML & Data
- Vertica Field CTO
- Hadapt Chief Data Scientist
- Speaker in ML & data forums, Harvard Business School
- Startup advisor, leadership coach
- Cornell CS (PhD, MS) specializing in Databases

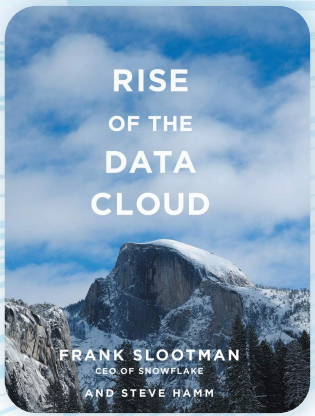
STATE OF THE DATA CLOUDS

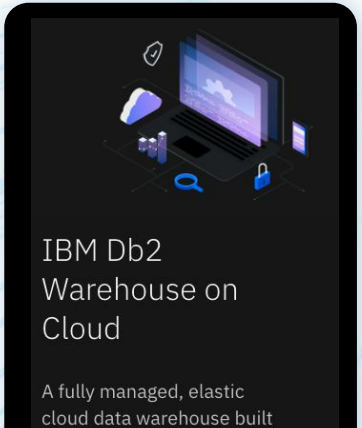
Microsoft® SQL Azure™

trino

Starburst

snowflake





teradata.
VANTAGE

databricks

Google BigQuery

Amazon **Redshift**

THE WALL STREET JOURNAL.

Oracle's Cloud Business Grows

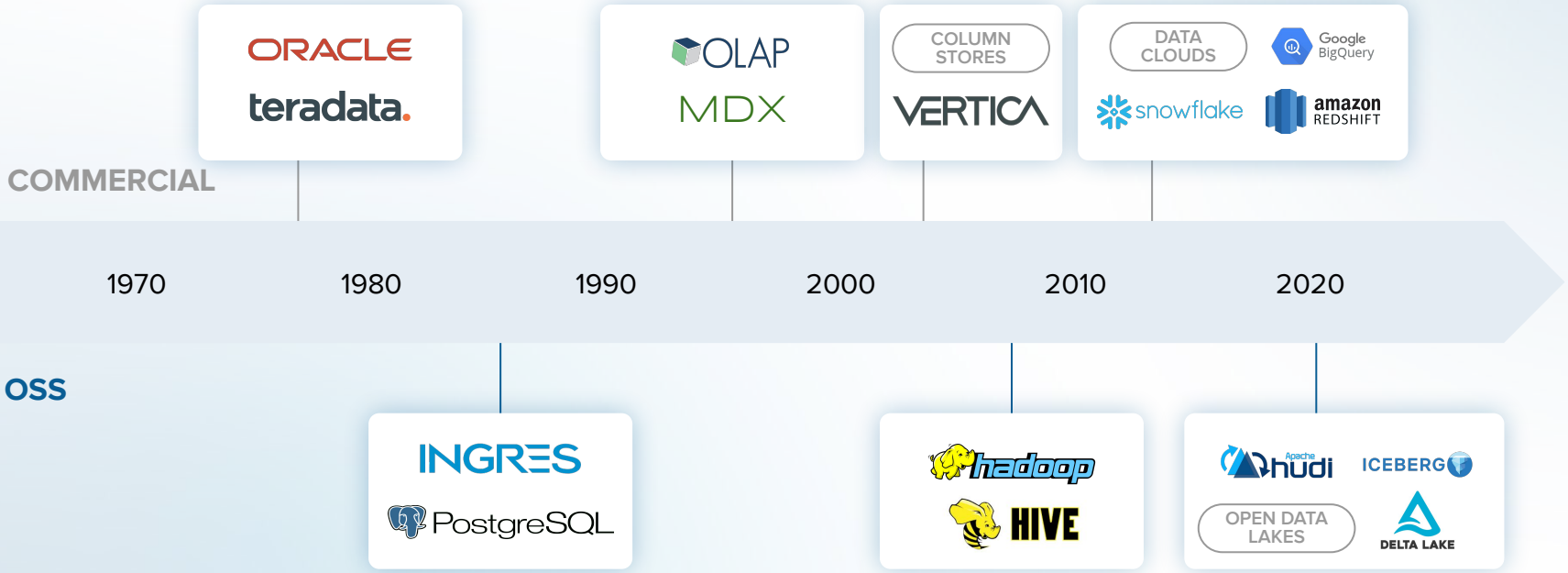
The enterprise technology company's cloud business saw 24% revenue growth from year earlier

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

PHOTO: MIKE BLAKE/REUTERS

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

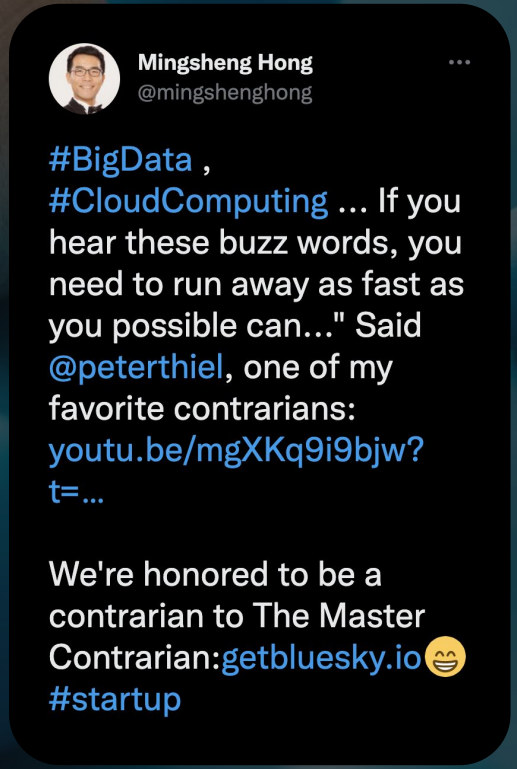
COMPLEXITY → OFFLOADING
WAITING → PRODUCTIVITY
ROI? → CONTROL

MINGSHENG'S CAREER STORY #2:
BE A CONTRARIAN

MINGSHENG'S CAREER STORY #2:

BE A CONTRARIAN

...EVEN TO THE BIGGEST CONTRARIANS



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?

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!)