

BI – Evolutionary cycles

A BRIEF RETROSPECTIVE

1970'S

1980'S

1990'S

2000'S

2010'S

2020'S

NEXT

FOUNDATION

EMERGENCE

1ST GENERATION

ADOPTION

BIG DATA

CLOUD

FUTURE STATE

Mainframes

B. Inmon

OLAP

Microsoft

Hadoop

Databricks &
Snowflake

Hybrid

RDBMS

R. Kimball

Columnar

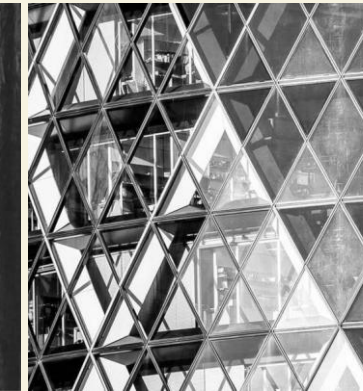
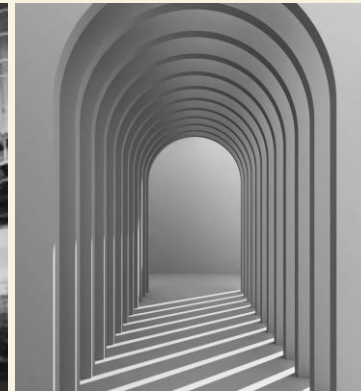
Data Visualization

Cloud DWH

Lakehouse

Multi-engine

Data Mesh



1970's

FOUNDATION

- Mainframes and minicomputers
- DSS and MIS
- Flat files, VSAM, ISAM
- First Relational Database
- Oracle

1980's

EMERGENCE

- B. Inmon: Data Warehousing
- R. Kimball: Dimensional Modeling

1990's

1ST GENERATION BI TOOLS

- OLAP is born
- First columnar database
- Finance

2000's

ADOPTION

- Microsoft
- Data Visualization
- Semantic Layer

2010's

BIG DATA

- Hadoop
- Data Vault
- Cloud Data Warehousing
- dbt

2020's

CLOUD

- Databricks
- Snowflake
- Data Lakehouse
- Data Mesh

Next

FUTURE STATE

- Hybrid storage/data locality
- Multi-engine support