# Why the Lakehouse?



### **Craig Porteous**

**Principal Consultant** 



https://craigporteous.com



@cporteous



https://github.com/cporteou











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What problem is it trying to solve?

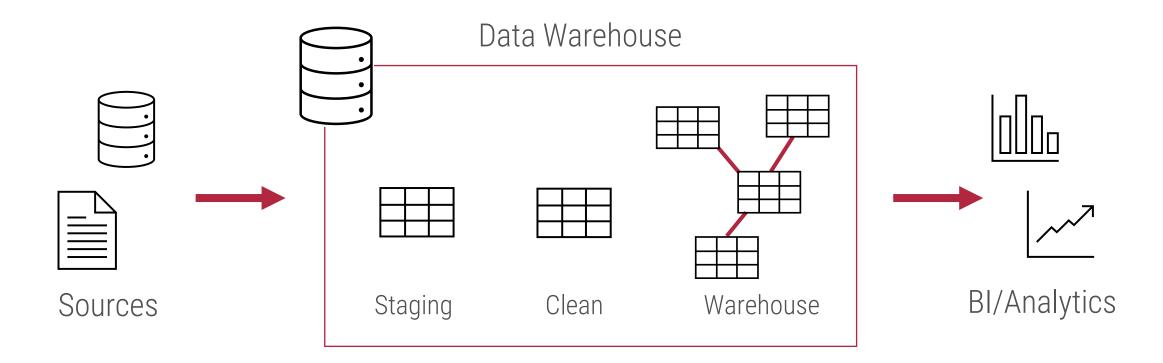








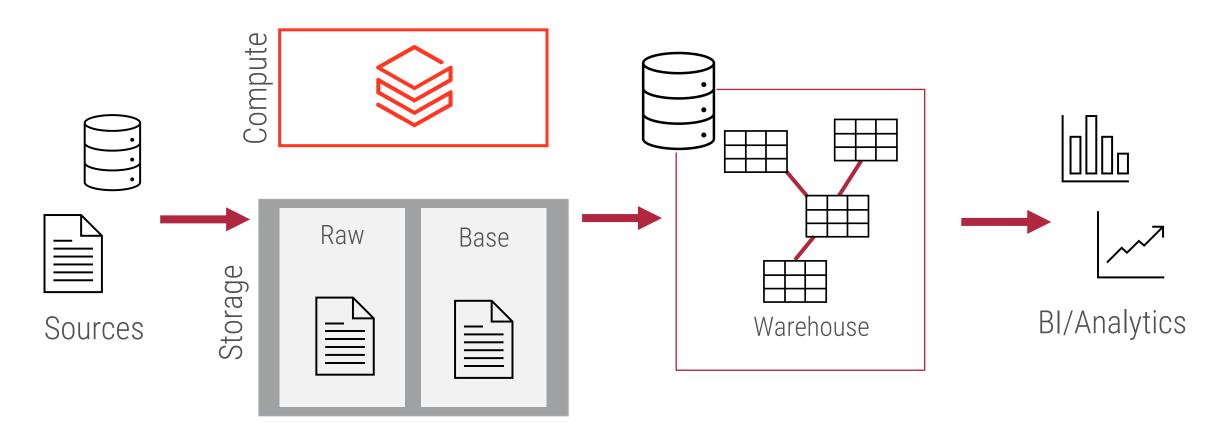






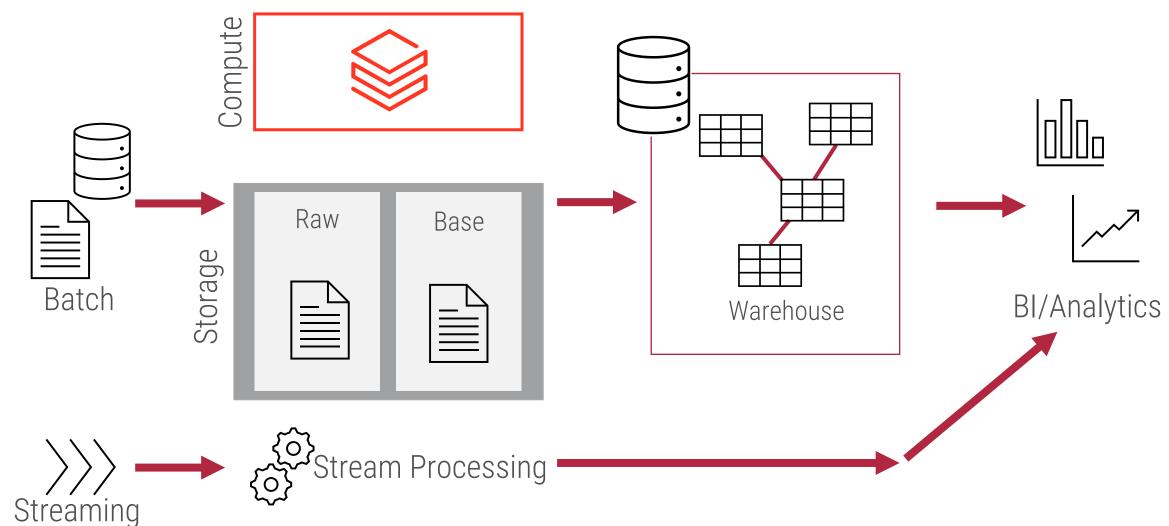


#### THE MODERN DATA WAREHOUSE

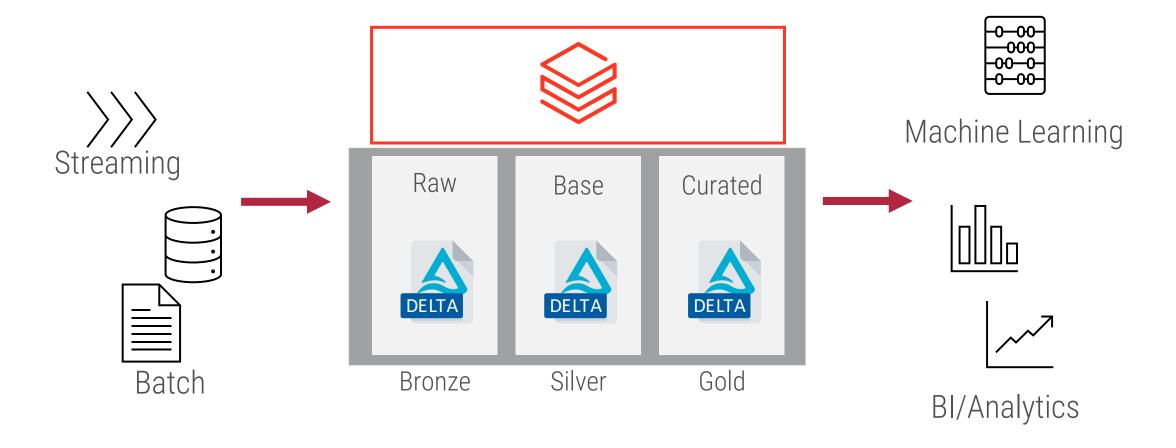




#### **LAMBDA ARCHITECTURE**

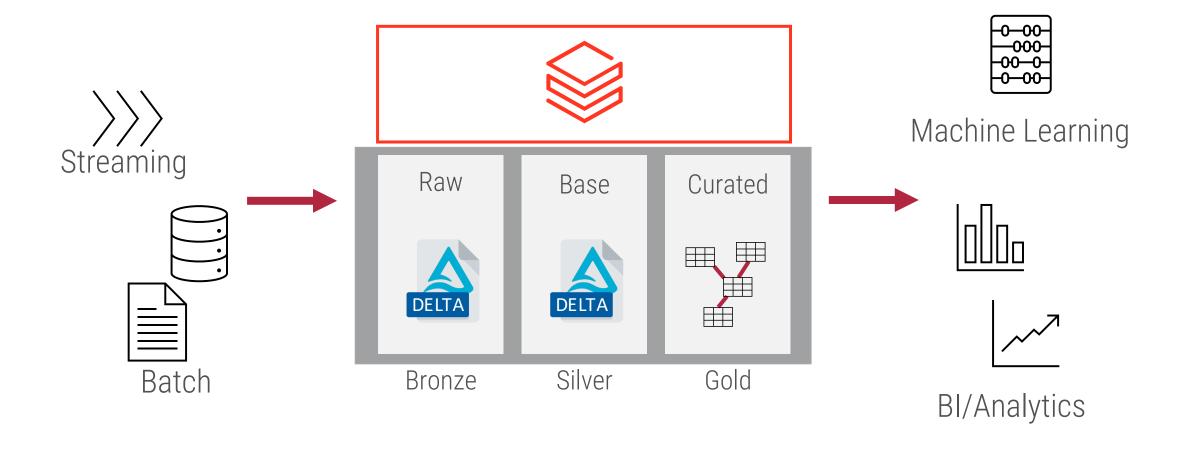
















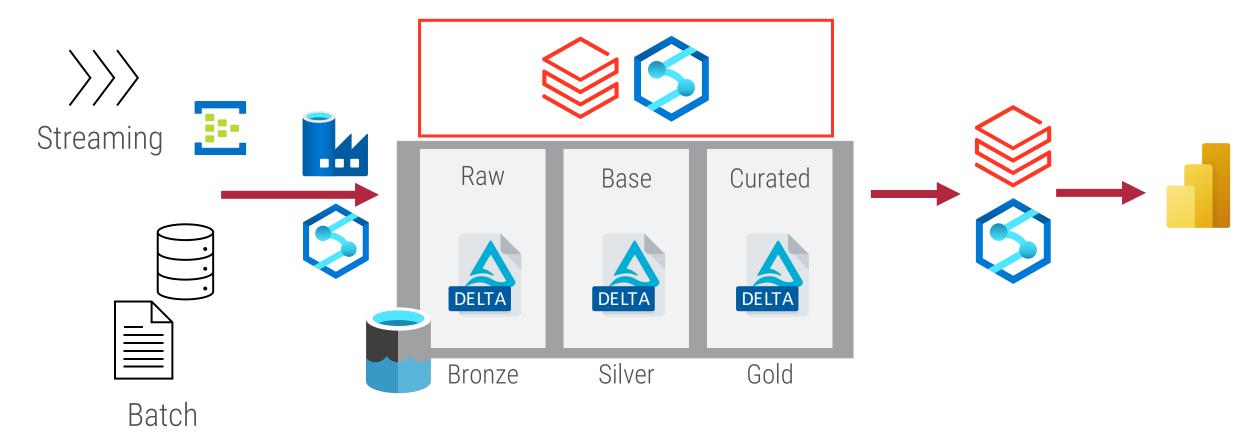


- **OPEN SOURCE**
- **BASED ON PARQUET**
- ACID TRANSACTIONS
- **TIME TRAVEL**
- SCHEMA EVOLUTION
- **BATCH & STREAMING SUPPORT**



#### AN AZURE DATA LAKEHOUSE





#### **COMMON LAKEHOUSE TECHNOLOGIES**











































- **SQL**
- **PYTHON**
- SCALA

DATA

ACID TRANSACTIONS

WAREHOUSE • GOVERNANCE



DATA LAKE

CHEAP

STORAGE

FLEXIBLE

#### DATA LAKEHOUSE

- ANALYTICS
- BUSINESS INTELLIGENCE
- MACHINE LEARNING
- BIG DATA



## THANK YOU

Please leave feedback



https://craigporteous.com



@cporteous



https://github.com/cporteou



https://sqlb.it/?10207





