Apache Avatica for Universal Database Access

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Various roles and involvement in...

**Top-Level Projects**
- Accumulo
- Calcite
- HBase
- Phoenix

**ASF Incubator**
- Fluo
- Gossip
- Rya
- Slider

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The Playing Field

Apache Calcite Avatica

“A framework for building database drivers”

Apache Calcite

Foundational components for building high-performance databases

APACHE PHOENIX

“OLTP and operational analytics for Apache Hadoop”
The “Traditional” Database Architecture

Client → Database
A “Partitioned” Database
Apache Phoenix (thick driver)
Apache Phoenix (thin driver)

Client — PQS — ZooKeeper

Apache HBase

Master
Region Server
Region Server
Region Server

ZooKeeper
Apache Phoenix -- Non-JDBC Client

Apache HBase
- Master
- Region Server
- Region Server
- Region Server

PQS
- JDBC
- Python
- Go

ZooKeeper
Avatica with other Databases

- Clients
- PQS
- Apache HBase

- Clients
- Avatica
- MySQL
Apache Calcite -- Hybrid Database Access

- Avatica
- Calcite
- Clients
- MySQL
- PostgreSQL
- Phoenix
- Oracle
- Druid
- Hive
Thanks!

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