

Catalog and Data Sources

Parquet

CSV

Extension
Catalog / Table

Extension
Frontend

SQL

DataFrame

LogicalPlan

Extension
Node

ExecutionPlan

Extension
Node

Expression Eval

HashAggregate

Join

Sort

Extension
Stream

Streams

*Optimizations /
Transformations*

Extension
LogicalPlan Rewrite

*Optimizations /
Transformations*

Extension
ExecutionPlan Rewrite

Front Ends

Plan Representations and Rewrites

Execution Engine