Database

Clickhouse *∂*

- On-demand Courses -
- · Clickhouse architecture
- How is Clickhouse fast?
- Data type (Engines)
- Indexes
- Functions
- · Partitioning and Sharding
- Clustering
- · How do you create a Clickhouse cluster
 - o zookeeper 3 nodes
 - Clickhouse on 3 nodes to form a cluster
- Prepare and load sample data GitHub ClickHouse/ClickBench: ClickBench: a Benchmark For Analytical Database
- Integration Pg to CH, S3 to CH (understand file format JSON, Parquet and Avro), ETL/ELT tools example is Airbyte
- · Monitoring clickhouse
 - top queries
 - execution plan
 - Tools GitHub PostHog/HouseWatch: Open source tool for monitoring and managing ClickHouse clusters
- How to deploy Clickhouse on Kubernetes (Altinity Clickhouse operator)
- Use cases
 - Observability
 - Fraud Detection
 - Analytics
- Comparison of Clickhouse vs Druid vs DuckDB

PostgreSQL *⊘*

- data structures
- Tuning
 - Book: The art of tuning PostgreSQL
- GitHub microsoft/OrcasNinjaTeam: GitHub repo for assets created by the Orcas Ninja Team