**Meeting Notes – Huawei**

1. Data Lake & Storage

1. Proposal for Data Lake (Lake House Design).
2. Offload workloads from warehouse to lake house.
3. Monitor data evolution.
4. Database partitioning – columnar access.
5. BigQuery: avoid heavy use of SELECT \* due to cost implications.
6. Consider ClickHouse as a potential solution.

2. Data Management & Governance

1. Data sharing (democratization).
2. Establish a data catalogue for mapping.
3. Handle structured vs. unstructured data effectively.
4. Data lineage and data visibility must be ensured.
5. Need data stewards for each dataset.
6. Data governance should be treated as a live, continuous process.

3. Orchestration & Monitoring

1. We currently leverage on SSIS for moving and monitoring data movement and in the process of onboarding DBT for orchestration
2. Clarify which orchestration tools are being used.

4. Use Cases & Platforms

1. Assess whether proposed use cases can be delivered.
2. CCE (Customer Containers) considered.
3. Serverless computing efficient for small datasets.
4. Document-based storage offers higher speed.
5. Consider platform, analytics, and business use cases alignment.

**5. ML & Compute Architecture**

Ensure separation of concerns for ML use cases (storage vs. compute).

Support decoupling of storage and compute (pure MPP, cloud-native).

Address IOPS (input/output resources).

Transition processes need to be clarified.

Explore monetization models and pricing structures.

6. Cloud & Deployment Considerations

Cloud advantages: scalability, elasticity.

Deployment region impacts latency and performance.

Regional data residency requirements for control and safety.

Factors: network, storage, compute.

7. Security & Compliance

Apply security at the application layer.

Implement auditing, data masking, and data hashing.

Identify and manage PII.

Ensure compliance with GDPR, with rules specified per column.

8. Tools, Solutions & KPIs

Evaluate whether tools and solutions are justifiable.

Emphasize customer-centered support.

Establish clear requirements and scope with defined KPIs.

Ensure shared vision and demonstration of business value