08 – Optimal Column Layout for Hybrid Workloads

1. Overview of Idea
   Nowadays, structure layout is fixed because there are no storage model that is tailored to all dataset. But, it can be tailored to specific dataset by evaluating access pattern of sample dataset. Also, update operation can be optimized by using ghost value.

2. Main Finding
   Storage layout can be tailored to data model itself by frequency modeling of data access pattern

3. Systems used and its Specifications
   Columnar storage structure, partitioned by data sample, using ghost value to optimize update operation

4. Workloads evaluated
   Custom benchmark based on ADAPT is used, which is Hybrid Access Pattern