RowKey Design

Instead of using the original business ID as the RowKey directly, we prefix it with a 2-digit number. This prefix is derived from the hash code of the original RowKey to distribute the rows evenly across the 10 regions.

The RowKey design follows the format:



Java code for generating the new RowKey:

A close-up of a code

Description automatically generated

The hash code technique ensures that each business ID gets assigned to one of the 10 prefixes. By pre-splitting the table into 10 regions based on these prefixes, we ensure an even distribution of data across regions.

A screenshot of the read/write requests count from the Master UI shows that the data and requests are evenly distributed across all the regions.

A screenshot of a white sheet

Description automatically generated