HBase Table in Tabular view

|  |  |  |
| --- | --- | --- |
| **RowKey** | **Column Family** | |
| **Column Qualifier1** | **Column Qualifier2** |
| **1** | **A** | **10** |
| **2** | **B** | **20** |
| **3** | **C** | **30** |

HBase Table mapping to RDBMS Table

|  |  |
| --- | --- |
| **Row Key** | **Data** |
| **1** | **columnfamily:{‘columnqualifier1’:’A’,’columnqualifier2’:’10’}** |
| **2** | **columnfamily:{‘columnqualifier1’:’B’,’columnqualifier2’:’20’}** |
| **3** | **columnfamily:{‘columnqualifier1’:’C’,’columnqualifier2’:’30’}** |

Row Key: Translates as Primary Key in relational table

Column Family: Group of Column Qualifier having same characteristics are placed together in a Column Family. In the table below, there are two different column families, *columnfamily1* and *columnfamily11*. A Column Family can have more than 1 column qualifiers, in the table below, *columnfamily1* has 2 column qualifiers, *columnqualifier1* and *columnqualifier2*.

|  |  |
| --- | --- |
| **Row Key** | **Data** |
| **1** | **columnfamily1:{‘columnqualifier1’:’A’,’columnqualifier2’:’10’}**  **columnfamily11:{‘columnqualifier1’:’A1’,’columnqualifier2’:’11’}** |

Column Qualifier: Column Qualifier maps to a column in RDBMS terms. A single column can have different values at different timestamps.

|  |  |
| --- | --- |
| **Row Key** | **Data** |
| **1** | **columnfamily:{‘columnqualifier’:’A’@timestamp=1417524574905,**  **‘columnqualifier’:’B’@timestamp=1417524575978}** |

Data is always stores as byte[ ] in HBase.