

## Problem-2

Create a table named 'Mobile\_Subscribers' with two column families, namely, 'Personal\_Details' and 'Plan\_Details'. Maintain the VERSION counts for the column family Personal\_Details as 2 and Plan\_Details as 5. Phone numbers of the subscribers are to be used as row keys.

1. Add the data mentioned below into the table:
  - 7007989009(Row Key),  
Personal\_Details:Name = 'Rahul'  
Personal\_Details:Document\_Type='Aadhar',  
Personal\_Details:Document\_Number='100934561234'  
Plan\_Details:Call\_Plan='149'  
Plan\_Details:Data\_Plan='399'
  - 8965969019(Row Key),  
Personal\_Details:Name = 'Sonia'  
Personal\_Details:Document\_Type='Aadhar',  
Personal\_Details:Document\_Number='232934568901'  
Plan\_Details:Data\_Plan='499'
  - 98745654312(Row Key),  
Personal\_Details:Name = 'Hemraj'  
Personal\_Details:Document\_Type='Passport',  
Personal\_Details:Document\_Number='HJ128MN'  
Plan\_Details:Call\_Plan='81'
  - 98745654311(Row Key),  
Personal\_Details:Name = 'Shalini',  
Personal\_Details:Document\_Type='Passport'  
Personal\_Details:Document\_Number='HJ128MP'  
Plan\_Details:Call\_Plan='169'  
Plan\_Details:Data\_Plan='399'
2. Perform the following operations in HBase
  - a. Let's assume that after a month Rahul's call plan got expired and he did not recharge. Update the new call plan to 0. Here, 0 or non-existence of the call\_plan entry represents that the user is not in possession of any active call plan.
  - b. Sonia opts for a new data plan of 599 INR. Update this in the table.
  - c. Hemraj opts for a new data plan of value 1099. Update this in the table.

- d. Shalini updates her submitted document to Aadhaar, and her Aadhaar number is 134267541235. Update this in the table.
3. Perform the following operations.
  - a. Fetch the rows for which the document type is Aadhaar
  - b. Fetch the rows for which the document type is Passport
  - c. Fetch all data present in the column Name.
  - d. Fetch all data present in the column family Plan\_Details
4. Perform the following operations
  - a. Fetch two versions of the column Data\_Plan
  - b. Fetch two versions of the column Call\_Plan
  - c. Pick the earliest Call\_Plan for Rahul
  - d. Pick the earliest data\_plan for Sonia
  - e. Pick the earliest data\_plan for Hemraj
  - f. Pick the earliest Document\_Type for Shalini
5. Perform the following delete operations
  - a. Delete the earliest Call\_Plan for Rahul
  - b. Delete the earliest data\_plan for Sonia
  - c. Delete the earliest data\_plan for Hemraj
  - d. Delete the earliest Document\_Type for Shalini