# Problem-1

Suppose the owner of an online clothing website wants to maintain data of its customers and the products they buy from his website. A single customer can buy multiple products and can return the products purchased.

1. Create a table named 'Customer' with two column families 'Personal_Info' and 'Product_Info'. The version count for Personal_Info should be 2 and Product_Info should be 4 and should be changed in case needed. Customer_Number is the rowkey of the table.

2. Add the following data into the created table 'Customer'

- 001 (rowkey)
  Personal_Info:Customer_Name = 'Sam'
  Personal_Info:City = 'Pune'
  Personal_Info:Contact = 9877656789
  Personal_Info:Contact = 8765421345
  Product_Info:Name = 'Jeans'
  Product_Info:Size= 'M'
  Product_Info:Price = 1200

- 002 (rowkey)
  Personal_Infor:Customer_Name = 'Rahul'
  Personal_Infor:City = 'Mumbai'
  Personal_Info:Contact = 9844215263
  Product_Info:Name = 'T-shirt'
  Product_Info:Size= 'L'
  Product_Info:Price = 800
  Product_Info:Name = 'Shirt'
  Product_Info:Code= S
  Product_Info:Price = 1000
  Product_Info:Name = 'Jeans'
  Product_Info:Size= 'L'
  Product_Info:Price = 1200

- 003 (rowkey)
  Personal_Infor:Customer_Name = 'Shalini'
  Personal_Infor:City = 'Patiala'
  Personal_Info:Contact = 8765423456
  Product_Info:Name = 'Dress'
  Product_Info:Size = 'S'

Product_Info:Price = 2300
Product_Info:Name = 'T-shirt'
Product_Info:Size = 'S'
Product_Info:Price = 800

- 004 (rowkey)
  Personal_Infor:Customer_Name = 'Sakshi'
  Personal_Infor:City = 'Ludhiana'
  Personal_Info:Contact = 6789023456
  Product_Info:Name = 'Top'
  Product_Info:Size = 'M'
  Product_Info:Price = 1300
  Product_Info:Name = 'T-shirt'
  Product_Info:Size = 'M'
  Product_Info:Price = 800
  Product_Info:Name = 'Shirt'
  Product_Info:Size= 'S'
  Product_Info:Price = 1000
  Product_Info:Name = 'Jeans'
  Product_Info:Size= 'S'
  Product_Info:Price = 1200

- 005 (rowkey)
  Personal_Infor:Customer_Name = 'Riya'
  Personal_Infor:City = 'Delhi'
  Personal_Info:Contact = 7785823459
  Product_Info:Name = 'Top'
  Product_Info:SIze = 'S'
  Product_Info:Price = 1300

3. The customer named 'Sam' wants to return all the products purchased. Delete the data associated with the customer named 'Sam'.
4. The website owner wants to change the bandwidth of the products bought by customers from 4 to 6. Use a Shell command to the change.
5. Riya wants to buy a pair of jeans of size 'M' of price 1200. Add the relevant product information.
6. Calculate the number of customers.
7. Fetch the details of customers who have bought items with a price less than or equal to  1000.
8. Fetch the names of all the customers from the table.
9. Fetch the details of the products sold.