

Assume that HBase is used to store customers and order information. There are two core record-types being ingested: a Customer record type, and Order record type. The Customer record type would include all the things that you'd typically expect: ID, name, address, contact no and the order record type includes customer ID, order ID, date, a series of objects of shipping location and line items.

1. Create the following tables in HBase shell:
  - customer
    - Rowkey- customer\_id
    - Column Family- info
  - order
    - Rowkey- customer\_id:order\_id
    - Column Family- line\_items
2. Add the following data into the created table 'customer'
  - 101 (rowkey)  
info:name = 'Mary'  
info:email = 'Mary@gmail.com'  
info:contact = '9876577890'
  - 134 (rowkey)  
info:name = 'Jack'  
info:email = 'jack13@gmail.com'  
info:contact = '9996498552'
  - 112 (rowkey)  
info:name = 'Jill'  
info:email = 'jill@yahoo.com'  
info:contact = '8907612346'
  - 100 (rowkey)  
info:name = 'Max'  
info:email = 'Max23@gmail.com'  
info:contact = '5529995529'
3. Place an order for a user and insert the required data in the order table
  - 101:005 (rowkey)  
line\_items:quantity = '2'  
line\_items:price = '100'  
line\_items:city = 'bengaluru'  
line\_items:state = 'karnataka'
  - 134:016 (rowkey)  
line\_items:quantity = '1'

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line_items:price = '1050'  
line_items:city = 'patiala'  
line_items:state = 'punjab'
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- 112:024 (rowkey)  
line\_items:quantity = '2'  
line\_items:price = '500'  
line\_items:city = 'bengaluru'  
line\_items:state = 'karnataka'
  - 100:009 (rowkey)  
line\_items:quantity = '6'  
line\_items:price = '2000'  
line\_items:city = 'amritsar'  
line\_items:state = 'punjab'
4. Cancel the order for user Max.
  5. Get the list of all the cities where customers live.
  6. Get the order details of user Jill whose order id is 024.