**Hadoop Developer Training – HBase Lab Book**

**Exercise 1 :**

**Create table Customer in Hbase , load data into Customer table using ‘PUT’,’HIVE’,’PIG’ and some basic hbase queries**

**Customer Details**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CNUM** | **CNAME** | **CITY** | **RATING** | **SNUM** |
| 2001 | Hoffman | London | 100 | 1001 |
| 2002 | Giovanni | Rome | 200 | 1003 |
| 2002 | Giovanni | Rome | 200 | 1003 |
| 2003 | Liu | San Jose | 200 | 1002 |
| 2004 | Grass | Berlin | 300 | 1002 |
| 2005 | Clemens | London | 100 | 1001 |
| 2006 | Cisneros | San Jose | 300 | 1007 |
| 2007 | Preira | Rome | 100 | 1004 |

1. **Invoke the Hbase Shell:**

**$hbase shell**

**// hbase>**

1. **Create a table named ‘Customer’ with following characteristics:**

*#Table name : ‘Customer’*

*#column Family : ‘info’*

*#other: keep only 1 version of the rows for column family ‘info’*

*hbase> create 'Customer','info'*

1. **Describe the above table ‘Customer’:**

***hbase>*** *describe ‘Customer’*

1. **Put data row by row into the ‘Customer’ table with the following:**

*#rowkey:2001*

*#’info:cname’:< Hoffman >*

***hbase>*** *put ‘Customer’,’ 2001’,’info: cname’,’ Hoffman’*

***hbase>*** *put ‘Customer’,’ 2001’,’info: city’,’ London’*

***hbase>*** *put ‘Customer’,’ 2001’,’info: rating’,’ 100’*

***hbase>*** *put ‘Customer’,’ 2001’,’info: snum’,’ Hoffman’*

Continue same for other rows of data

1. **Scan the ‘Customer’ table:**

***hbase >*** *scan ‘Customer’*

1. **List all the tables :**

***hbase >*** *list*

1. **Retrieving single row data**

***hbase*** *>get ‘Customer’,’2001’*

1. **To get one specific column ,include the COLUMN option**

***hbase*** *> get ‘Customer’,’ 2001’,{COLUM=>’info’,’cname’}*

1. **We can also get two or more columns by passing an array of columns.**

***hbase*** *> get ‘Customer’,’ 2001’,{COLUM=>[’info’,’cname’, ’info’,’city’]}*

1. **If we want to add fl column family to Customer table we use**

***hbase****> disable ‘Customer’*

***hbase*** *> alter ‘Customer’,{NAME=>’f1’,VERSION=>5}*

***hbas****e>enable ‘Customer’*

1. **To delete f1 column family from Emp table we use**

***hbase****> disable ‘Customer’*

***hbase*** *> alter ‘Customer’,{NAME=>’f1’,METHOD=>’delete’}*

***hbas****e>enable ‘Customer’*

1. **If we want to delete snum from info column family we use**

***hbase*** *> delete ‘Customer’,’ 2001’,’info:snum’*

1. **12. Disable and delete table Customer:**

***hbase*** *> disable ‘Customer’*

***hbase*** *> drop’ Customer’*

**Exercise2:**

**Flushes and Compactions**

You will manually flush and compact a table

**Follow Below Steps for more clear**

****

**hbase>** disable ‘mytable’

**hbase>** exit