To-do

Case Study Description Let us take up the CUSTOMER and TRANSACTIONS table we have created in the Let's Do Together section. Let us solve the following use cases using these tables:-

1. Find out the number of transaction done by each customer (These should be take up in module 8 itself)

Step:1 Start The Hive Shell

Step 2: Create Customer Table

Step 3: We have inserted data into customer table from local file custs.txt as shown below

LOAD DATA LOCAL INPATH '/home/acadgild/hive/custs.txt' into table CUSTOMER;

```
hive> LOAD DATA LOCAL INPATH '/home/acadgild/hive/custs.txt' into table CUSTOMER;
Loading data to table custom.customer
OK
Time taken: 3.282 seconds
```

Step 4: After inserting data into customer table, we are verifying that data is present in customer table by fetching rows by using query :

select * from customer;

Before that, we have set column header to TRUE so that we can have column headers along with output by using command:

set hive.cli.print.header = TRUE;

```
hive> set hive.cli.print.header = TRUE;
hive> select * from customer;
OΚ
                                                        customer.lname customer.age
55 Pilot
customer.custid customer.fname
                                                                                                                  customer.profession
4000001 Kristina Chu
4000002 Paige Chen 74
4000003 Sherri Melton 34
4000004 Gretchen Hil
                                          Chung
                                           74
                                                         Teacher
                                                         Firefighter
                                          Hill
                                                         66
                                                                       Computer hardware engineer
4000004 Gretchen Hit

4000005 Karen Puckett 74

4000006 Patrick Song 42

4000007 Elsie Hamilton

4000008 Hazel Bender 63

4000009 Malcolm Wagner 39

4000010 Dolores McLaughlin
                                                        Lawyer
                                                         Veterinarian
43 Pilot
                                                         Carpenter
                                                         Artist
                                                         60
                                                                       Writer
Time taken: 0.612 seconds, Fetched: 10 row(s)
```

Now Create TRANSACTIONS table

```
hive> CREATE TABLE TRANSACTIONS (txnno INT, txndate STRING, custno INT, amount DOUBLE, category STRING, product STRING, city STRING, stat
e STRING, spendby STRING)
> row format delimited fields terminated by ',';
UK
Time taken: 0.755 seconds
```

Insert Data into Transactions Table

LOAD DATA LOCAL INPATH '/home/acadgild/hive/txns.txt' into table TRANSACTIONS;

```
hive> LOAD DATA LOCAL INPATH '/home/acadgild/hive/txns.txt' into table TRANSACTIONS;
Loading data to table custom.transactions
OK
```

See the inserted Data

select * from transactions;

- 2. Create a new table called TRANSACTIONS_COUNT. This table should have 3 fields custid, fname and count. (Again to be done in module 8)
- 3. Now write a hive query in such a way that the query populates the data obtained in Step 1 above and populate the table in step 2 above. (This has to be done in module 9).
- 4. Now lets make the TRANSACTIONS_COUNT table Hbase complaint. In the sence, use Ser Des And Storate handler features of hive to change the TRANSACTIONS_COUNT table to be able to create a TRANSACTIONS table in Hbase. (This has to be done in module 10)
- 5. Now insert the data in TRANSACTIONS_COUNT table using the query in step 3 again, this should populate the Hbase TRANSACTIONS table automatically (This has to be done in module 10)
- 6. Now from the Hbase level, write the Hbase java API code to access and scan the TRANSACTIONS table data from java level.