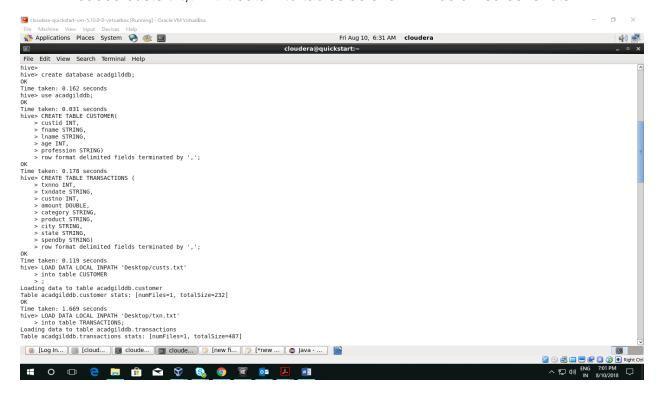
WORKING CUSTOMER & TRANSACTION DATA(HIVE , HBASE)

Case Study Description

Let us take up the CUSTOMER and TRANSACTIONS table we have created in the Let's Do Together section.

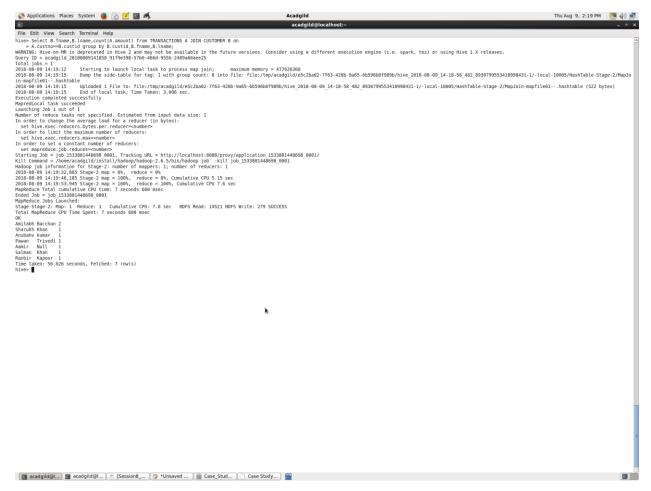
- Created Acadgild DB.
- Using acadgild DB as default data base
- Created CUSTOMER,TRANSACTIONS tables as below
- Loaded custs.txt,txn.txt data into tables as shown in below screenshots



WORKING CUSTOMER & TRANSACTION DATA(HIVE , HBASE)

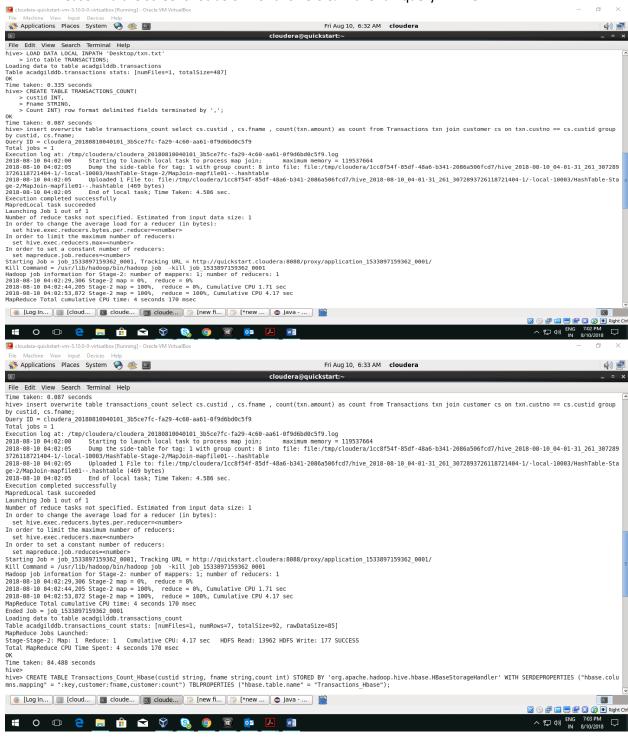
1. Find out the number of transaction done by each customer as shown below screenshot using below query.

Select C.fname,C.lname,count(T.amount) from Transactions T JOIN customer C on T.custno==C.custid group by C.custid,C.fnam e,C.lname;



CASE STUDY – II WORKING CUSTOMER & TRANSACTION DATA(HIVE , HBASE)

- 2. Create a new table called TRANSACTIONS_COUNT. This table should have 3 fields custid, fname and count.
- 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.
 - Please find the screenshot below for answers & I have ran guery in hive

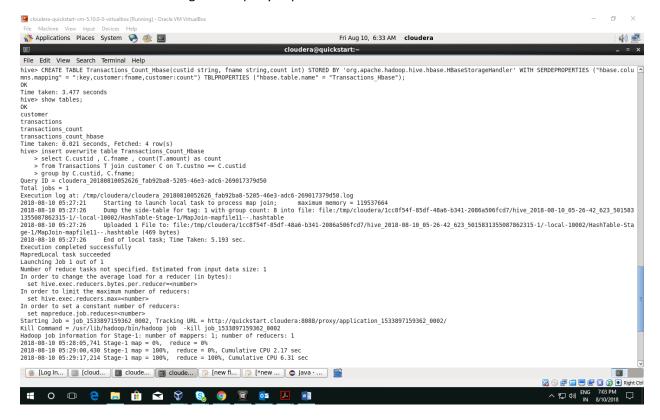


WORKING CUSTOMER & TRANSACTION DATA(HIVE, HBASE)

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.

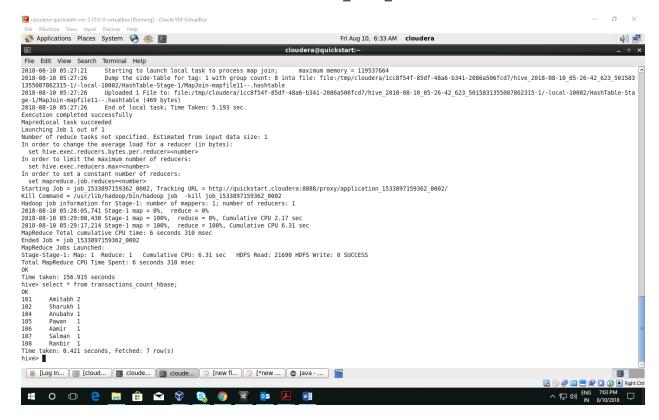
insert the data in TRANSACTIONS_COUNT table using the query in step 3 again, this should populate the Hbase TRANSACTIONS table automatically

- As shown in below picture TRASACTION_COUNT_HBASE & TRASACTION__HBASE tables are created.
- Data is inserted using below query in picture



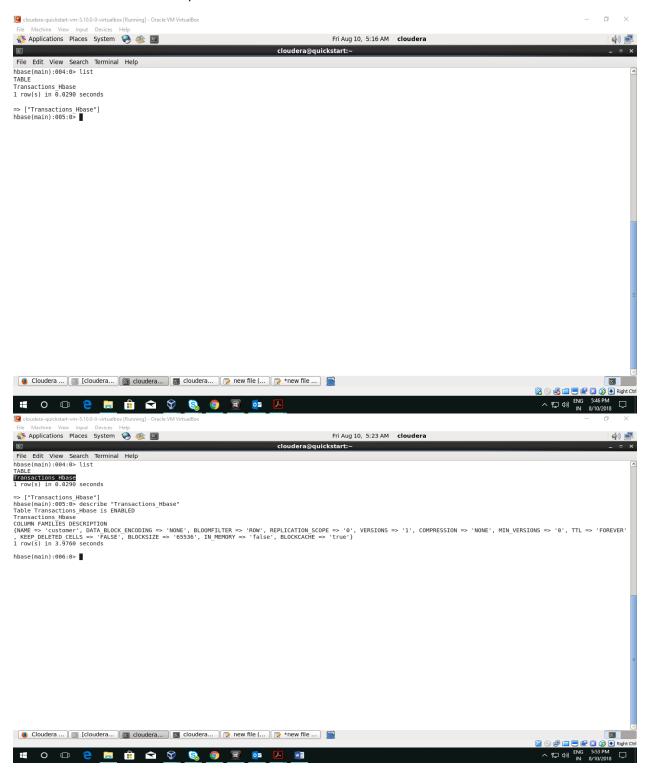
WORKING CUSTOMER & TRANSACTION DATA(HIVE, HBASE)

Please find the data inserted into transactions_count_hbase hive table



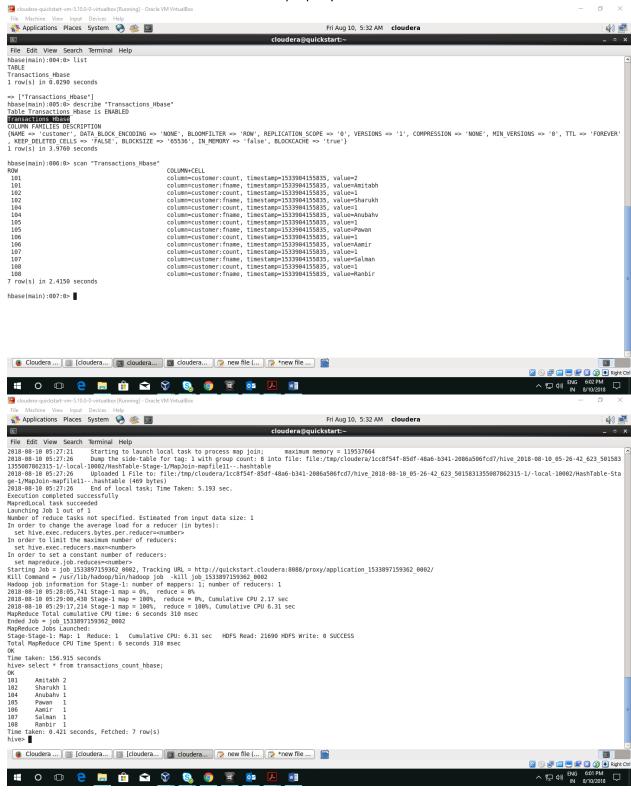
CASE STUDY – II WORKING CUSTOMER & TRANSACTION DATA(HIVE , HBASE)

- Please find the hbase table created out of the query
- Please find the description of table



WORKING CUSTOMER & TRANSACTION DATA(HIVE , HBASE)

Scanned table to make sure the data is loaded properly.



WORKING CUSTOMER & TRANSACTION DATA(HIVE, HBASE)

- 6. Now from the Hbase level, write the Hbase java API code to access and scan the TRANSACTIONS table data from java level
 - Executed below code in java eclipse in same acadgild vm, connected to Hbase table scanned table from java code displayed code in console.

