

Loading Historical Transactions Data into NoSQL Database

Commands to load the past transactions data into NoSQL database

Command to create a Database named “ccfd_hive_db” if it’s already not present and will use the same for further process.

```
hive> create database IF NOT EXISTS ccfd_hive_db;  
hive> use ccfd_hive_db;
```

```
hive> create database IF NOT EXISTS ccfd_hive_db;  
OK  
Time taken: 1.025 seconds  
hive> use ccfd_hive_db;  
OK  
Time taken: 0.063 seconds
```

Command to set various parameters to optimize performance.

set hive options

```
hive> set hive.auto.convert.join=false;  
hive> set hive.stats.autogather=true;  
hive> set orc.compress=SNAPPY;  
hive> set hive.exec.compress.output=true;  
hive> set mapred.output.compression.codec=org.apache.hadoop.io.compress.SnappyCodec;  
set mapred.output.compression.type=BLOCK;  
hive> set mapreduce.map.java.opts=-Xmx5G;  
hive> set mapreduce.reduce.java.opts=-Xmx5G;  
hive> set mapred.child.java.opts=-Xmx5G -XX:+UseConcMarkSweepGC -XX:-  
UseGCTimeout;
```

```
Time taken: 0.009 seconds  
hive> set hive.auto.convert.join=false;  
hive> set hive.stats.autogather=true;  
hive> set orc.compress=SNAPPY;  
hive> set hive.exec.compress.output=true;  
hive> set mapred.output.compression.codec=org.apache.hadoop.io.compress.SnappyCodec; set mapred.output.compression.type=BLOCK;  
hive> set mapreduce.map.java.opts=-Xmx5G;  
hive> set mapreduce.reduce.java.opts=-Xmx5G;  
hive> set mapred.child.java.opts=-Xmx5G -XX:+UseConcMarkSweepGC -XX:-UseGCTimeout;
```

Command to create an external table named “CARD_TRANSACTIONS_EXT” under same database as created above.

```
CREATE EXTERNAL TABLE IF NOT EXISTS CARD_TRANSACTIONS_EXT( `CARD_ID` STRING,
`MEMBER_ID` STRING,
`AMOUNT` DOUBLE,
`POSTCODE` STRING, `POS_ID` STRING, `TRANSACTION_DT` STRING, `STATUS` STRING)
ROW FORMAT DELIMITED
FIELDS TERMINATED BY ','
LOCATION '/ccfd_dir/card_transactions' TBLPROPERTIES ("skip.header.line.count"="1");
```

```
hive> CREATE EXTERNAL TABLE IF NOT EXISTS CARD_TRANSACTIONS_EXT( `CARD_ID` STRING,
> `MEMBER_ID` STRING,
> `AMOUNT` DOUBLE,
> `POSTCODE` STRING, `POS_ID` STRING, `TRANSACTION_DT` STRING, `STATUS` STRING)
> ROW FORMAT DELIMITED
> FIELDS TERMINATED BY ','
> LOCATION '/ccfd_dir/card_transactions' TBLPROPERTIES ("skip.header.line.count"="1");
OK
```

Time taken: 0.069 seconds

```
hive> select count(1) from CARD_TRANSACTIONS_EXT;
```

Query ID = hadoop_20240204130805_6a3affc0-78d1-4a87-94a1-66f7ce8d1cc2

Total jobs = 1

Launching Job 1 out of 1

Status: Running (Executing on YARN cluster with App id application_1707048263009_0004)

	VERTICES	MODE	STATUS	TOTAL	COMPLETED	RUNNING	PENDING	FAILED	KILLED
Map 1	container	SUCCEEDED	1	1	0	0	0	0	0
Reducer 2	container	SUCCEEDED	1	1	0	0	0	0	0

VERTICES: 02/02 [=====>>>] 100% ELAPSED TIME: 3.62 s

OK

53292

Time taken: 4.502 seconds, Fetched: 1 row(s)

Command to create and load data into the table in ORC format for better performance.

```
CREATE
TABLE IF NOT EXISTS CARD_TRANSACTIONS_ORC( `CARD_ID` STRING,
`MEMBER_ID` STRING,
`AMOUNT` DOUBLE,
`POSTCODE` STRING, `POS_ID` STRING, `TRANSACTION_DT` TIMESTAMP, `STATUS`
STRING)
STORED AS ORC
TBLPROPERTIES ("orc.compress"="SNAPPY");
```

```
hive> CREATE
> TABLE IF NOT EXISTS CARD_TRANSACTIONS_ORC( `CARD_ID` STRING,
> `MEMBER_ID` STRING,
> `AMOUNT` DOUBLE,
> `POSTCODE` STRING, `POS_ID` STRING, `TRANSACTION_DT` TIMESTAMP, `STATUS` STRING)
> STORED AS ORC
> TBLPROPERTIES ("orc.compress"="SNAPPY");
OK
Time taken: 0.268 seconds
```

INSERT OVERWRITE TABLE CARD_TRANSACTIONS_ORC SELECT

```
> CARD_ID,
> MEMBER_ID,
> AMOUNT,
> POSTCODE,
> POS_ID,
> CAST(FROM_UNIXTIME(UNIX_TIMESTAMP(TRANSACTION_DT, 'dd-MM-yyyy HH:mm:ss')) AS
> TIMESTAMP),
> STATUS
> FROM CARD_TRANSACTIONS_EXT;
```

```
hive> INSERT OVERWRITE TABLE CARD_TRANSACTIONS_ORC SELECT
> CARD_ID,
> MEMBER_ID,
> AMOUNT,
> POSTCODE,
> POS_ID,
> CAST(FROM_UNIXTIME(UNIX_TIMESTAMP(TRANSACTION_DT, 'dd-MM-yyyy HH:mm:ss')) AS
> TIMESTAMP),
> STATUS
> FROM CARD_TRANSACTIONS_EXT;
Query ID = hadoop_20240204130859_41620f6c-f22b-484f-9989-df585574f1b9
Total jobs = 1
Launching Job 1 out of 1
Status: Running (Executing on YARN cluster with App id application_1707048263009_0004)
```

	VERTICES	MODE	STATUS	TOTAL	COMPLETED	RUNNING	PENDING	FAILED	KILLED
Map 1	container	SUCCEEDED	1	1	0	0	0	0
Reducer 2	container	SUCCEEDED	1	1	0	0	0	0

```
VERTICES: 02/02 [=====>>>] 100% ELAPSED TIME: 5.94 s
Loading data to table ccf_hive_db.card_transactions_orc
OK
Time taken: 7.081 seconds
hive> SELECT count(1) from card_transactions_orc;
OK
53292
```

Command to create a HBase-Hive integrated table and insert data into it.

```
CREATE TABLE CARD_TRANSACTIONS_HBASE( `TRANSACTION_ID` STRING,
`CARD_ID` STRING,
> `MEMBER_ID` STRING,
```

```
> `AMOUNT` DOUBLE, `POSTCODE` STRING, `POS_ID` STRING, `TRANSACTION_DT`
TIMESTAMP, `STATUS` STRING)
> ROW FORMAT DELIMITED
> STORED BY 'org.apache.hadoop.hive.hbase.HBaseStorageHandler' WITH
SERDEPROPERTIES (
  > "hbase.columns.mapping"=:key, card_transactions_family:card_id,
card_transactions_family:member_id,
  > card_transactions_family:amount, card_transactions_family:postcode,
card_transactions_family:pos_id,
  > card_transactions_family:transaction_dt, card_transactions_family:status")
TBLPROPERTIES ("hbase.table.name"="card_transactions_hive");
```

```
Time taken: 2.05 seconds, Fetched: 10 row(s)
hive> CREATE TABLE CARD_TRANSACTIONS_HBASE( `TRANSACTION_ID` STRING, `CARD_ID` STRING,
  > `MEMBER_ID` STRING,
  > `AMOUNT` DOUBLE, `POSTCODE` STRING, `POS_ID` STRING, `TRANSACTION_DT` TIMESTAMP, `STATUS` STRING)
  > ROW FORMAT DELIMITED
  > STORED BY 'org.apache.hadoop.hive.hbase.HBaseStorageHandler' WITH SERDEPROPERTIES (
    > "hbase.columns.mapping"=:key, card_transactions_family:member_id,
    > card_transactions_family:amount, card_transactions_family:postcode, card_transactions_family:pos_id,
    > card_transactions_family:transaction_dt, card_transactions_family:status") TBLPROPERTIES ("hbase.table.name"="card_transactions_hive");
OK
Time taken: 3.98 seconds
```

```
INSERT OVERWRITE TABLE CARD_TRANSACTIONS_HBASE SELECT
  > reflect('java.util.UUID', 'randomUUID') AS TRANSACTION_ID, CARD_ID,
  > MEMBER_ID,
  > AMOUNT,
  > POSTCODE,
  > POS_ID,
  > TRANSACTION_DT,
  > STATUS
  > FROM CARD_TRANSACTIONS_ORC;
```

```
hive> INSERT OVERWRITE TABLE CARD_TRANSACTIONS_HBASE SELECT
  > reflect('java.util.UUID', 'randomUUID') AS TRANSACTION_ID, CARD_ID,
  > MEMBER_ID,
  > AMOUNT,
  > POSTCODE,
  > POS_ID,
  > TRANSACTION_DT,
  > STATUS
  > FROM CARD_TRANSACTIONS_ORC;
Query ID = hadoop_20240204131839_9f22f827-e4fd-4be4-9983-b453794a8260
Total jobs = 1
Launching Job 1 out of 1
Status: Running (Executing on YARN cluster with App id application_1707048263009_0007)
```

VERTICES	MODE	STATUS	TOTAL	COMPLETED	RUNNING	PENDING	FAILED	KILLED
Map 1	container	SUCCEEDED	1	1	0	0	0	0

```
VERTICES: 01/01 [=====>>] 100% ELAPSED TIME: 6.64 s
OK
Time taken: 78.293 seconds
```

SELECT YEAR(transaction_dt), transaction_dt FROM card_transactions_orc LIMIT 10;

```
hive> SELECT YEAR(transaction_dt), transaction_dt FROM card_transactions_orc LIMIT 10;
OK
2018      2018-02-11 00:00:00
2018      2018-02-11 00:00:00
2018      2018-02-11 00:00:00
2018      2018-02-11 00:00:00
2018      2018-02-11 00:00:00
2018      2018-02-11 00:00:00
2018      2018-02-11 00:00:00
2018      2018-02-11 00:00:00
2018      2018-02-11 00:00:00
2018      2018-02-11 00:00:00
Time taken: 2.03 seconds, Fetched: 10 row(s)
```

select * from card_transactions_hbase limit 10;

```
Time taken: 78.293 seconds
hive> select * from card_transactions_hbase limit 10;
OK
07df2b57-a8d4-4275-9da4-68d129989f53      5527087716468343      632873590564801 8635114.0      41567      649783725699809 2017-12-24 15:46:37      GENUINE
0b3d287b-61eb-4549-9f2b-4031a86ab839      5391723993945313      997128952368160 215255.0      60056      254217670996973 2017-12-13 16:26:15      GENUINE
0e318b80-fe7a-4038-8b3f-ecfee59743be      5155708512920844      300213121454267 3677089.0      11962      698167110333904 2017-03-05 10:45:39      GENUINE
0f52353d-a15c-4505-8a12-399f8ab833a2      6492177672429642      856504383389409 6056381.0      62922      087106851137542 2016-06-04 22:34:42      GENUINE
1ad256be-9a98-4bce-9213-5e66a0ab5b1b      5563292710804718      717127477091175 5301233.0      48816      155123262921334 2016-11-03 15:41:22      GENUINE
20b44db5-4908-4b31-af9c-f20d4d850624      4418227862530505      651536837442483 4761548.0      44436      501310161181891 2017-03-31 01:13:13      GENUINE
2aa77fdc-9de5-4e65-921a-b11ef3fdb0bd      6011920259166638      190431255542160 7193591.0      36032      609723292586452 2017-10-25 23:12:32      GENUINE
2d45adbb-adcc-4014-ac00-abc442ccdb1e      5517690092508277      895174073192784 586893.0      44652      230050674316010 2016-02-27 08:01:56      GENUINE
3244e18d-858a-43ad-ad3c-155152ba6337      374437449333250 738960224159727 6120469.0      25031      498794716838435 2017-04-04 22:50:43      GENUINE
35af8f2a-7ef8-41f8-a602-4da38ce59542      5555584152987559      671218347984960 4974179.0      14144      036662336806936 2018-01-24 14:23:43      GENUINE
Time taken: 0.206 seconds, Fetched: 10 row(s)
```

describe 'card_transactions_hive'

```
hbase:00000> exit
[hadoop@ip-172-31-18-154 ~]$ sudo hbase shell
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/usr/lib/hadoop/lib/slf4j-log4j12-1.7.25.jar/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/usr/share/aws/emr/emrfs/lib/slf4j-log4j12-1.7.12.jar/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/usr/lib/hbase/lib/client-facing-thirdparty/slf4j-log4j12-1.7.25.jar/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.
SLF4J: Actual binding is of type [org.slf4j.impl.Log4jLoggerFactory]
HBase Shell
Use 'help' to get list of supported commands.
Use 'exit' to quit this interactive shell.
For Reference, please visit: http://hbase.apache.org/2.0/book.html#shell
Version 2.4.4-amzn-1, rUnknown, Wed Nov 10 09:50:56 UTC 2021
Took 0.0018 seconds
hbase:001:0> describe 'card_transactions_hive'
Table card_transactions_hive is ENABLED
card_transactions_hive
COLUMN FAMILIES DESCRIPTION
(NAME => 'card_transactions_family', BLOOMFILTER => 'ROW', IN_MEMORY => 'false', VERSIONS => '1', KEEP_DELETED_CELLS => 'FALSE', DATA_BLOCK_ENCODING => 'NONE', COMPRESSION => 'NONE', TT
L => 'FOREVER', MIN_VERSIONS => '0', BLOCKCACHE => 'true', BLOCKSIZE => '65536', REPLICATION_SCOPE => '0')

1 row(s)
Quota is disabled
Took 0.5141 seconds
hbase:002:0>
```


Count 'card_transactions_hive'

```
hbase:003:0> count 'card_transactions_hive'
Current count: 1000, row: 04d828eb-67ec-4c41-a0de-dc85ae2c170d
Current count: 2000, row: 09abb576-dade-4ac8-9cca-1d218ecc4b64
Current count: 3000, row: 0e965c56-ee8e-43a3-8397-636ad93b27cb
Current count: 4000, row: 131ed467-4a8a-401b-81fb-20ce344e10d3
Current count: 5000, row: 17d15c87-faee-4afd-a0d9-d7595a72444f
Current count: 6000, row: 1cb9809b-cdef-4cb6-99fd-62ec0eb5b34d
Current count: 7000, row: 213e8fda-9fce-4918-92d1-e299346ab1af
Current count: 8000, row: 2603fe6e-f017-42d5-9bb3-06a143626b79
Current count: 9000, row: 2acab997-bfe5-4aef-b5db-4ebe5bb6aa5f
Current count: 10000, row: 2fb2c8cf-3c8b-48f0-9b26-11e2f25bcfe2
Current count: 11000, row: 34cff22d-4d78-4e39-8877-9237905c294a
Current count: 12000, row: 3979ed79-2467-4a72-864b-5ac0a8f5cfde
Current count: 13000, row: 3e37dc3b-411a-4c0b-9650-800a69419488
Current count: 14000, row: 42e7fe0a-c1a7-4a9c-bf5d-a9ec600fb7b2
Current count: 15000, row: 478bcd0a-48aa-43d2-9911-fe531bd9d65c
Current count: 16000, row: 4c528eca-89f6-4ff6-a012-f9a45304c4f9
Current count: 17000, row: 5113eb8a-e771-43f7-b7b4-5057d356c225
Current count: 18000, row: 55c95112-a768-4504-8771-017eb0e63413
Current count: 19000, row: 5a8d2b4a-c54a-4ff2-9314-a7fbbfb5e9de
Current count: 20000, row: 5f7443ba-d424-4f8f-9bb0-170cb54955aa
Current count: 21000, row: 646a9ba4-c62e-4e91-8cce-65e190256d59
Current count: 22000, row: 692312ad-27d1-4498-9cf8-e9c0465a1db5
Current count: 23000, row: 6dc2c825-7fba-4497-a514-1167d45a5573
Current count: 24000, row: 72bfe747-1941-47a4-9aee-2049f5e3a822
Current count: 25000, row: 77bd9505-210d-499d-b196-d8bc6bc45199
Current count: 26000, row: 7c6e5afa-414e-4bab-931b-7e60dfd563d9
Current count: 27000, row: 812f35be-e702-43c3-a6d8-54b362f5a6ba
Current count: 28000, row: 862468cb-69f5-479c-b456-1e97c579c129
Current count: 29000, row: 8acf000e-e08c-40cf-b6cb-6bdc67006b77
Current count: 30000, row: 8fc47b0a-6034-4f47-ab33-d47dc3e605ad
Current count: 31000, row: 94aa94fa-6b5e-49f4-98ca-0e558714d39a
Current count: 32000, row: 995c2d64-a6f4-4cc1-b807-39418c62d8f5
Current count: 33000, row: 9e3bfff50-bf35-42d0-a6da-0539a61d3964
Current count: 34000, row: a2e93539-3d82-4b65-97f4-97a9c1e6593b
Current count: 35000, row: a7bdefd0-9260-41dd-b55d-87af641e52a0
Current count: 36000, row: ac60365b-e441-425e-b43b-bd24be171621
Current count: 37000, row: b145cd5a-d141-4c97-b55c-4d5cd6227b6e
Current count: 38000, row: b612378c-0e94-462c-8255-e49fd5b73238
Current count: 39000, row: bb0bf1f5-682c-4b63-95d5-66b903e3232f
Current count: 40000, row: bfc9fc11-b56e-4014-8050-87dc840abaed
Current count: 41000, row: c4ab171d-e83e-4a26-8e98-9e1d2046b228
Current count: 42000, row: c990acdd-1cc3-4f2e-be81-cf3b5e7b9b42
Current count: 43000, row: ce51eef3-6966-46b4-94f1-65e306ce936e
Current count: 44000, row: d32ec724-68b0-4652-8234-021d64e99300
Current count: 45000, row: d80331e3-8967-4d1c-9188-8f03a912ef8b
Current count: 46000, row: dcbda4b6-ecab-413d-9b13-bab46e2641ab
Current count: 47000, row: e1b2d231-9c00-4915-a44c-61150c11feb2
Current count: 48000, row: e6cb4653-4674-4802-9f9e-e9c416a80db2
Current count: 49000, row: ebcc2cd6-4890-46bf-ba29-5dfa38c7c84c
Current count: 50000, row: f07b7ecd-405f-409d-b5eb-7c4aa63d6d23
Current count: 51000, row: f5218255-cf02-4658-ace6-1a74d34ce3ad
Current count: 52000, row: f9d9b9a8-10ad-4088-bda4-a8c01571465d
Current count: 53000, row: fe77ddf2-7ded-4a11-b843-8d58260a64b6
53292 row(s)
Took 1.5885 seconds
=> 53292
hbase:004:0>
```

Command to list the table in which the data is loaded and the command to get the count of the rows of the table

Screenshot of the table created

```
hive> CREATE EXTERNAL TABLE IF NOT EXISTS CARD_TRANSACTIONS_EXT( `CARD_ID` STRING,
> `MEMBER_ID` STRING,
> `AMOUNT` DOUBLE,
> `POSTCODE` STRING, `POS_ID` STRING, `TRANSACTION_DT` STRING, `STATUS` STRING)
> ROW FORMAT DELIMITED
> FIELDS TERMINATED BY ','
> LOCATION '/ccfd_dir/card_transactions' TBLPROPERTIES ("skip.header.line.count"="1");
OK
Time taken: 0.069 seconds
hive> select count(1) from CARD_TRANSACTIONS_EXT;
Query ID = hadoop_20240204130805_6a3affc0-78d1-4a87-94a1-66f7ce8d1cc2
Total jobs = 1
Launching Job 1 out of 1
Status: Running (Executing on YARN cluster with App id application_1707048263009_0004)
```

	VERTICES	MODE	STATUS	TOTAL	COMPLETED	RUNNING	PENDING	FAILED	KILLED
Map 1	container	SUCCEEDED	1	1	0	0	0	0	0
Reducer 2	container	SUCCEEDED	1	1	0	0	0	0	0

```
VERTICES: 02/02 [=====>>>] 100% ELAPSED TIME: 3.62 s
OK
53292
Time taken: 4.502 seconds, Fetched: 1 row(s)
hive> CREATE
> TABLE IF NOT EXISTS CARD_TRANSACTIONS_ORC( `CARD_ID` STRING,
> `MEMBER_ID` STRING,
> `AMOUNT` DOUBLE,
> `POSTCODE` STRING, `POS_ID` STRING, `TRANSACTION_DT` TIMESTAMP, `STATUS` STRING)
> STORED AS ORC
> TBLPROPERTIES ("orc.compress"="SNAPPY");
OK
Time taken: 0.268 seconds
```

```
hbase:003:0> count 'card_transactions_hive'
Current count: 1000, row: 04d828eb-67ec-4c41-a0de-dc85ae2c170d
Current count: 2000, row: 09abb576-dade-4ac8-9cca-1d218ecc4b64
Current count: 3000, row: 0e965c56-ee8e-43a3-8397-636ad93b27cb
Current count: 4000, row: 131ed467-4a8a-401b-81fb-20ce344e10d3
Current count: 5000, row: 17d15c87-faee-4afd-a0d9-d7595a72444f
Current count: 6000, row: 1cb9809b-cdef-4cb6-99fd-62ec0eb5b34d
Current count: 7000, row: 213e8fda-9fce-4918-92d1-e299346ab1af
Current count: 8000, row: 2603fe6e-f017-42d5-9bb3-06a143626b79
Current count: 9000, row: 2acab997-bfe5-4aef-b5db-4ebe5bb6aa5f
Current count: 10000, row: 2fb2c8cf-3c8b-48f0-9b26-11e2f25bcfe2
Current count: 11000, row: 34cff22d-4d78-4e39-8877-9237905c294a
Current count: 12000, row: 3979ed79-2467-4a72-864b-5ac0a8f5cfde
Current count: 13000, row: 3e37dc3b-411a-4c0b-9650-800a69419488
Current count: 14000, row: 42e7fe0a-cla7-4a9c-bf5d-a9ec600fb7b2
Current count: 15000, row: 478bcd0a-48aa-43d2-9911-fe531bd9d65c
Current count: 16000, row: 4c528eca-89f6-4ff6-a012-f9a45304c4f9
Current count: 17000, row: 5113eb8a-e771-43f7-b7b4-5057d356c225
Current count: 18000, row: 55c95112-a768-4504-8771-017eb0e63413
Current count: 19000, row: 5a8d2b4a-c54a-4ff2-9314-a7fbbfb5e9de
Current count: 20000, row: 5f7443ba-d424-4f8f-9bb0-170cb54955aa
Current count: 21000, row: 646a9ba4-c62e-4e91-8cce-65e190256d59
Current count: 22000, row: 692312ad-27d1-4498-9cf8-e9c0465a1db5
Current count: 23000, row: 6dc2c825-7fba-4497-a514-1167d45a5573
Current count: 24000, row: 72bfe747-1941-47a4-9aee-2049f5e3a822
Current count: 25000, row: 77bd9505-210d-499d-b196-d8bc6bc45199
Current count: 26000, row: 7c6e5afa-414e-4bab-931b-7e60dfd563d9
Current count: 27000, row: 812f35be-e702-43c3-a6d8-54b362f5a6ba
Current count: 28000, row: 862468cb-69f5-479c-b456-1e97c579c129
Current count: 29000, row: 8acf000e-e08c-40cf-b6cb-6bdc67006b77
Current count: 30000, row: 8fc47b0a-6034-4f47-ab33-d47dc3e605ad
Current count: 31000, row: 94aa94fa-6b5e-49f4-98ca-0e558714d39a
Current count: 32000, row: 995c2d64-a6f4-4cc1-b807-39418c62d8f5
Current count: 33000, row: 9e3bff50-bf35-42d0-a6da-0539a61d3964
Current count: 34000, row: a2e93539-3d82-4b65-97f4-97a9c1e6593b
Current count: 35000, row: a7bdefd0-9260-41dd-b55d-87af641e52a0
Current count: 36000, row: ac60365b-e441-425e-b43b-bd24be171621
Current count: 37000, row: b145cd5a-d141-4c97-b55c-4d5cd6227b6e
Current count: 38000, row: b612378c-0e94-462c-8255-e49fd5b73238
Current count: 39000, row: bb0b1f5-682c-4b63-95d5-66b903e3232f
Current count: 40000, row: bfc9fc11-b56e-4014-8050-87dc840abaed
Current count: 41000, row: c4ab171d-e83e-4a26-8e98-9e1d2046b228
Current count: 42000, row: c990acdd-1cc3-4f2e-be81-cf3b5e7b9b42
Current count: 43000, row: ce51eef3-6966-46b4-94f1-65e306ce936e
Current count: 44000, row: d32ec724-68b0-4652-8234-021d64e99300
Current count: 45000, row: d80331e3-8967-4d1c-9188-8f03a912ef8b
Current count: 46000, row: dcbda4b6-ecab-413d-9b13-bab46e2641ab
Current count: 47000, row: e1b2d231-9c00-4915-a44c-61150c11feb2
Current count: 48000, row: e6cb4653-4674-4802-9f9e-e9c416a80db2
Current count: 49000, row: ebcc2cd6-4890-46bf-ba29-5dfa38c7c84c
Current count: 50000, row: f07b7ecd-405f-409d-b5eb-7c4aa63d6d23
Current count: 51000, row: f5218255-cf02-4658-ace6-1a74d34ce3ad
Current count: 52000, row: f9d9b9a8-10ad-4088-bda4-a8c01571465d
Current count: 53000, row: fe77ddf2-7ded-4a11-b843-8d58260a64b6
53292 row(s)
Took 1.5885 seconds
=> 53292
hbase:004:0>
```

The final row count is **53292** as mentioned in the project description