



Sqoop Export

...

Transferring data from HDFS to
RDBMS



Create table in mysql

In mysql Create a table in banking database.

```
create database banking;  
use banking;
```

```
CREATE TABLE card_transactions (transaction_id INT,  
card_id BIGINT,  
member_id BIGINT,  
amount INT,  
postcode INT,  
pos_id BIGINT,  
transaction_dt varchar(255), status varchar(255),  
PRIMARY KEY (transaction_id));
```



Now export the data

Move the **card_trans.csv** file in /data folder in hdfs & execute the **sqoop export** command.

```
hadoop fs -mkdir /data
```

```
hadoop fs -ls /data
```

```
hadoop fs -put Desktop/card_trans.csv /data
```

```
sqoop export \
```

```
--connect jdbc:mysql://quickstart.cloudera:3306/banking \
```

```
--username root \
```

```
--password cloudera \
```

```
--table card_transactions \
```

```
--export-dir /data/card_trans.csv \
```

```
--fields-terminated-by ','
```



Sqoop export command Screenshot

```
[cloudera@quickstart ~]$  
[cloudera@quickstart ~]$ hadoop fs -ls /data  
Found 2 items  
-rw-r--r--    1 cloudera supergroup      19 2020-04-10 15:35 /data/file1.txt  
drwxr-xr-x    - cloudera supergroup      0 2020-04-10 15:38 /data/folder1  
[cloudera@quickstart ~]$ hadoop fs -put Desktop/card_trans.csv /data  
[cloudera@quickstart ~]$ sqoop export \  
> --connect jdbc:mysql://quickstart.cloudera:3306/banking \  
> --username root \  
> --password cloudera \  
> --table card_transactions \  
> --export-dir /data/card_trans.csv \  
> --fields-terminated-by ','
```



We can see the table is populated in mysql

```
mysql> select * from card_transactions limit 10;
```

transaction_id	card_id	member_id	amount	postcode	pos_id	transaction_dt	status
1	348702330256514	37495066290	9084849	33946	614677375609919	11-02-2018 00:00:00	GENUIN
2	348702330256514	37495066290	330148	33946	614677375609919	11-02-2018 00:00:00	GENUIN
3	348702330256514	37495066290	136052	33946	614677375609919	11-02-2018 00:00:00	GENUIN
4	348702330256514	37495066290	4310362	33946	614677375609919	11-02-2018 00:00:00	GENUIN
5	348702330256514	37495066290	9097094	33946	614677375609919	11-02-2018 00:00:00	GENUIN
6	348702330256514	37495066290	2291118	33946	614677375609919	11-02-2018 00:00:00	GENUIN
7	348702330256514	37495066290	4900011	33946	614677375609919	11-02-2018 00:00:00	GENUIN
8	348702330256514	37495066290	633447	33946	614677375609919	11-02-2018 00:00:00	GENUIN
9	348702330256514	37495066290	6259303	33946	614677375609919	11-02-2018 00:00:00	GENUIN
10	348702330256514	37495066290	369067	33946	614677375609919	11-02-2018 00:00:00	GENUIN

10 rows in set (0.00 sec)



Sqoop Job Failure example

Refer Document 3.

- 1. Here we will try to find the reason of the Job failure.**
- 2. Also we need to make sure the any failure should not impact our actual table.**



Example of a working export using staging table

Create a Normal Table

```
CREATE TABLE card_transactions (  
  card_id BIGINT,  
  member_id BIGINT,  
  amount INT,  
  postcode INT,  
  pos_id BIGINT,  
  transaction_dt varchar(255),  
  status varchar(255),  
  PRIMARY KEY (card_id, transaction_dt));
```

Create a Staging Table

```
CREATE TABLE card_transactions_stage (  
  card_id BIGINT,  
  member_id BIGINT,  
  amount INT,  
  postcode INT,  
  pos_id BIGINT,  
  transaction_dt varchar(255),  
  status varchar(255),  
  PRIMARY KEY (card_id, transaction_dt) );
```



Move the file in HDFS & run Sqoop Export

```
hadoop fs -put Desktop/card_transactions_new.csv /data
```

```
sqoop export \  
--connect jdbc:mysql://quickstart.cloudera:3306/banking \  
--username root \  
--password cloudera \  
--table card_transactions \  
--staging-table card_transactions_stage \  
--export-dir /data/card_transactions_new.csv \  
--fields-terminated-by ';
```




Sqoop export job completed successfully

bytes written=0

20/04/14 16:04:32 INFO mapreduce.ExportJobBase: Transferred 14.9736 KB in 27.2157 seconds (563.389 bytes/sec)

20/04/14 16:04:32 INFO mapreduce.ExportJobBase: Exported 62 records.

20/04/14 16:04:32 INFO mapreduce.ExportJobBase: Starting to migrate data from staging table to destination.

20/04/14 16:04:32 INFO manager.SqlManager: Migrated 62 records from 'card_transactions stage' to 'card transactions'

[cloudera@quickstart ~]\$



We have learnt Sqoop export

Happy Learning!!!



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