

Create mysql database emp

Type 'help;' or '\n' for help. Type '\c' to clear the current input statement.

```
mysql> show databases;
```

Database
information_schema
bl
metastore
mysql
test

5 rows in set (0.00 sec)

```
mysql> create database emp;
```

Query OK, 1 row affected (0.00 sec)

```
mysql> use emp;
```

Database changed

```
mysql> show tables;
```

Empty set (0.00 sec)

```
mysql> create table employee (name varchar(100),id int,salary int,PRIMARY KEY(id));
```

Query OK, 0 rows affected (0.01 sec)

```
mysql> show tables;
```

Tables_in_emp
employee

1 row in set (0.00 sec)

```
mysql> Describe employee;
```

Field	Type	Null	Key	Default	Extra
name	varchar(100)	YES		NULL	
id	int(11)	NO	PRI	0	
salary	int(11)	YES		NULL	

3 rows in set (0.00 sec)

```
mysql> INSERT INTO employee (name,id,salary) values ('name2',2,20000);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO employee (name,id,salary) values ('name3',3,30000);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO employee (name,id,salary) values ('name4',4,40000);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO employee (name,id,salary) values ('name5',5,50000);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO employee (name,id,salary) values ('name6',6,60000);
Query OK, 1 row affected (0.00 sec)

mysql> select * from employee;
+-----+-----+-----+
| name  | id  | salary |
+-----+-----+-----+
| name1 | 1   | 10000  |
| name2 | 2   | 20000  |
| name3 | 3   | 30000  |
| name4 | 4   | 40000  |
| name5 | 5   | 50000  |
| name6 | 6   | 60000  |
+-----+-----+-----+
6 rows in set (0.00 sec)
```

```
mysql> grant all on *.* to 'root'@'localhost' with grant option;
Query OK, 0 rows affected (0.00 sec)
```

Hbase shell

```
l. localdomain.oul
[acadgild@localhost hbase]$ ./bin/hbase shell
2017-12-23 05:24:13,610 INFO [main] Configuration.deprecation: hadoop.native.lib
is deprecated. Instead, use io.native.lib.available
HBase Shell; enter 'help<RETURN>' for list of supported commands.
Type "exit<RETURN>" to leave the HBase Shell
Version 0.98.14-hadoop2, r4e4aabb93b52f1b0fef6b66edd06ec8923014dec, Tue Aug 25 2
2:35:44 PDT 2015

hbase(main):001:0> █
```

```
hbase(main):001:0> create 'Academp','emp_details'
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/usr/local/hbase/lib/slf4j-log4j12-1.6.4.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/usr/local/hadoop-2.6.0/share/hadoop/common/lib/slf4j-log4j12-1.7.5.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.
2017-12-23 05:30:37,536 WARN [main] util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
0 row(s) in 4.1190 seconds

=> Hbase::Table - Academp
hbase(main):002:0> █
```

```
hbase(main):002:0> scan 'Academp'
ROW                                COLUMN+CELL
0 row(s) in 0.1900 seconds
```

Import from mysql

```
[acadgild@localhost ~]$ sqoop import --connect jdbc:mysql://localhost/emp --username root --password root --table employee --hbase-table Academp --column-family emp_details --hbase-row-key id -m 1
```

Scan Hbase table

```
hbase(main):003:0> scan 'Academp'
ROW                                COLUMN+CELL
1      column=emp_details:name, timestamp=1513987807325, value=name1
1      column=emp_details:salary, timestamp=1513987807325, value=10000
2      column=emp_details:name, timestamp=1513987807325, value=name2
2      column=emp_details:salary, timestamp=1513987807325, value=20000
3      column=emp_details:name, timestamp=1513987807325, value=name3
3      column=emp_details:salary, timestamp=1513987807325, value=30000
4      column=emp_details:name, timestamp=1513987807325, value=name4
4      column=emp_details:salary, timestamp=1513987807325, value=40000
5      column=emp_details:name, timestamp=1513987807325, value=name5
5      column=emp_details:salary, timestamp=1513987807325, value=50000
6      column=emp_details:name, timestamp=1513987807325, value=name6
6      column=emp_details:salary, timestamp=1513987807325, value=60000
6 row(s) in 0.5370 seconds
```

Values are imported successfully

2) Export from Hbase to mysql using sqoop:

Create db

```
mysql> create database db1;
Query OK, 1 row affected (0.02 sec)

mysql>
```

Create table abcd

```
mysql> CREATE TABLE abcd(emp_id int(2),emp_name varchar(10),emp_sal int(10),date date);
Query OK, 0 rows affected (0.03 sec)

mysql> show tables;
+-----+
| Tables_in_db1 |
+-----+
| abcd           |
+-----+
1 row in set (0.00 sec)
```

```
mysql> describe abcd;
```

Field	Type	Null	Key	Default	Extra
emp_id	int(2)	YES		NULL	
emp_name	varchar(10)	YES		NULL	
emp_sal	int(10)	YES		NULL	
date	date	YES		NULL	

4 rows in set (0.01 sec)

Upload data file to hdfs directory

Create directory in hdfs

```
[acadgild@localhost ~]$ hadoop dfs -mkdir /sqoop_mysql
DEPRECATED: Use of this script to execute hdfs command is deprecated.
Instead use the hdfs command for it.
```

```
17/12/23 06:10:34 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
[acadgild@localhost ~]$
```

```
asses where applicable
[acadgild@localhost ~]$ hadoop dfs -ls /
DEPRECATED: Use of this script to execute hdfs command is deprecated.
Instead use the hdfs command for it.
```

```
17/12/23 06:12:29 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
Found 10 items
drwxr-xr-x - acadgild supergroup          0 2017-12-18 04:33 /Assignment10_2
drwxr-xr-x - acadgild supergroup          0 2017-11-23 13:03 /dir3
drwxr-xr-x - acadgild supergroup          0 2017-12-23 05:22 /hbasestorage
drwxr-xr-x - acadgild supergroup          0 2017-11-23 08:24 /pig_output
-rw-r--r-- 1 acadgild supergroup        162 2017-11-23 12:57 /pigexec
drwxr-xr-x - acadgild supergroup          0 2017-12-23 06:10 /sqoop_mysql
-rw-r--r-- 1 acadgild supergroup     26204 2017-12-18 03:41 /student.txt
drwxrwxr-x - acadgild supergroup          0 2017-12-18 05:11 /tmp
drwxr-xr-x - acadgild supergroup          0 2015-11-17 01:56 /user
drwxr-xr-x - acadgild supergroup          0 2015-11-05 12:56 /zookeeper
```

```
[acadgild@localhost ~]$ cat /home/acadgild/input1.txt
5,HADOOP,50000,2011-09-10
6,SPARK,50000,2011-09-11
7,JAVA,50000,2011-09-12
8,PIG,50000,2011-09-13
9,HBASE,50000,2011-09-14
```

```
[acadgild@localhost ~]$ hadoop fs -copyFromLocal /home/acadgild/input1.txt /sqoop_mysql
17/12/23 06:23:04 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
[acadgild@localhost ~]$ hadoop dfs -ls /sqoop_mysql
DEPRECATED: Use of this script to execute hdfs command is deprecated.
Instead use the hdfs command for it.
```

```
17/12/23 06:23:20 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
Found 1 items
-rw-r--r-- 1 acadgild supergroup        124 2017-12-23 06:23 /sqoop_mysql/input1.txt
```

```
[acadgild@localhost ~]$ hadoop dfs -cat /sqoop_mysql/in*
DEPRECATED: Use of this script to execute hdfs command is deprecated.
Instead use the hdfs command for it.
```

```
17/12/23 06:26:20 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
5,HADOOP,50000,2011-09-10
6,SPARK,50000,2011-09-11
7,JAVA,50000,2011-09-12
8,PIG,50000,2011-09-13
9,HBASE,50000,2011-09-14
```

Run sqoop export command

```
acac@acadgild:~/sqoop$ sqoop export --connect jdbc:mysql://localhost/db1 --username root --password root --table abcd --export-dir /sqoop_mysql/ -m 1
```

```
mysql> select * from abcd;
```

emp_id	emp_name	emp_sal	date
5	HADOOP	50000	2011-09-10
6	SPARK	50000	2011-09-11
7	JAVA	50000	2011-09-12
8	PIG	50000	2011-09-13
9	HBASE	50000	2011-09-14
5	HADOOP	50000	2011-09-10
6	SPARK	50000	2011-09-11
7	JAVA	50000	2011-09-12
8	PIG	50000	2011-09-13
9	HBASE	50000	2011-09-14
5	HADOOP	50000	2011-09-10
6	SPARK	50000	2011-09-11
7	JAVA	50000	2011-09-12
8	PIG	50000	2011-09-13
9	HBASE	50000	2011-09-14
5	HADOOP	50000	2011-09-10
6	SPARK	50000	2011-09-11
7	JAVA	50000	2011-09-12
8	PIG	50000	2011-09-13
9	HBASE	50000	2011-09-14

```
20 rows in set (0.01 sec)
```

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