

Sqoop Import

Simple Sqoop Import

```
sqoop import \  
--connect jdbc:mysql://localhost/retail_db \  
--username root \  
--password cloudera \  
--table customers
```

Specifying Mappers

```
sqoop import \  
--connect jdbc:mysql://localhost/retail_db \  
--username root --password cloudera \  
--table customers  
-m 2
```

Managing destination directory

Defining warehouse directory

```
sqoop import \  
--connect jdbc:mysql://localhost/retail_db \  
--username root --password cloudera \  
--table customers \  
--warehouse-dir /user/cloudera/new-warehouse
```

Defining target directory

```
sqoop import \  
--connect jdbc:mysql://localhost/retail_db \  
--username root --password cloudera \  
--table customers \  
--target-dir /user/cloudera/customer-new
```

Delete target directory if already exists

```
sqoop import \  
--connect jdbc:mysql://localhost/retail_db \  
--username root --password cloudera \  
--table customers \  
--target-dir /user/cloudera/customer-new \  
--delete-target-dir
```

Working with File Formats

Importing as avro files

```
sqoop import \  
--connect jdbc:mysql://localhost/retail_db \  
--username root --password cloudera \  
--table customers \  
--target-dir /user/cloudera/customer-avro \  
--as-avrodatafile
```

Importing as parquet files

```
sqoop import \  
--connect jdbc:mysql://localhost/retail_db \  
--username root --password cloudera \  
--table customers \  
--target-dir /user/cloudera/customer-parquet \  
--as-parquetfile
```

Importing as Sequence files

```
sqoop import \  
--connect jdbc:mysql://localhost/retail_db \  
--username root --password cloudera \  
--table customers \  
--target-dir /user/cloudera/customer-sequence \  
--as-sequencefile
```

Working with Compression Types

Gzip Compressed

```
sqoop import \  
--connect jdbc:mysql://localhost/retail_db \  
--username root --password cloudera \  
--table customers \  
--target-dir /user/cloudera/customer_gzip \  
--compress
```

Snappy Compressed

```
sqoop import \  
--connect jdbc:mysql://localhost/retail_db \  
--username root --password cloudera \  
--table customers \  
--target-dir /user/cloudera/customer_snappy \  
--compress \  
--compression-codec snappy
```

Deflate Compressed

```
sqoop import \  
--connect jdbc:mysql://localhost/retail_db \  
--username root --password cloudera \  
--table customers \  
--target-dir /user/cloudera/customer_deflate \  
--compress \  
--compression-codec deflate
```

Bzip Compressed

```
sqoop import \  
--connect jdbc:mysql://localhost/retail_db \  
--username root --password cloudera \  
--table customers \  
--target-dir /user/cloudera/customer_bzip \  
--compress \  
--compression-codec bzip2
```

Lz4 Compressed

```
sqoop import \  
--connect jdbc:mysql://localhost/retail_db \  
--username root --password cloudera \  
--table customers \  
--target-dir /user/cloudera/customer_lz4 \  
--compress \  
--compression-codec lz4
```

Conditional/Selective Imports

Conditional Imports

```
sqoop import \  
--connect jdbc:mysql://localhost/retail_db \  
--username root --password cloudera \  
--table customers \  
--target-dir /user/cloudera/customer-name-m \  
--where "customer_fname='Mary'"
```

Selective Column Imports

```
sqoop import \  
--connect jdbc:mysql://localhost/retail_db \  
--username root --password cloudera \  
--table customers \  
--target-dir /user/cloudera/customer-selected \  
--columns  
"customer_fname,customer_lname,customer_city"
```

Using query

```
sqoop import \  
--connect jdbc:mysql://localhost/retail_db \  
--username root --password cloudera \  
--target-dir /user/cloudera/customer-queries \  
--query "Select * from customers where customer_id > 100  
AND $CONDITIONS" \  
--split-by "customer_id"
```

Split-by/Boundary Query

Split-By

```
sqoop import \  
--connect jdbc:mysql://localhost/retail_db \  
--username root --password cloudera \  
--table product \  
--target-dir /user/cloudera/products_split \  
--split-by "product_id"
```

Boundary-query

```
sqoop import \  
--connect jdbc:mysql://localhost/retail_db \  
--username root --password cloudera \  
--table products \  
--target-dir /user/cloudera/customer-boundary \  
--boundary-query 'Select min(product_id),max(product_id)  
from products where product_id>100' \  
--split-by product_id
```

Handling Null

Handling Null

```
sqoop import \  
--connect jdbc:mysql://localhost/retail_db \  
--username root --password cloudera \  
--table customer_new \  
--target-dir /user/cloudera/customer-new \  
--null-string "xxx" \  
--null-non-string "yyy"
```

Field Delimiters

Field Delimiters

```
sqoop import \  
--connect jdbc:mysql://localhost/retail_db \  
--username root --password cloudera \  
--table customers \  
--target-dir /user/cloudera/customer-delimited \  
--columns  
'customer_fname,customer_lname,customer_city' \  
--fields-terminated-by '|'
```


Incremental Appends

Simple Import

```
sqoop import \  
--connect jdbc:mysql://localhost/retail_db \  
--username root --password cloudera \  
--target-dir /user/cloudera/orders-incremental \  
--table orders
```

Inserts

```
insert into orders (order_id,order_date,order_status)  
values(100004,'2017-11-07 10:02:00','CLOSED');  
insert into orders (order_id,order_date,order_status)  
values(100005,'2017-11-07 10:02:00','CLOSED');  
insert into orders (order_id,order_date,order_status)  
values(100006,'2017-11-07 10:02:00','CLOSED');
```

Incremental Append

```
sqoop import \  
--connect jdbc:mysql://localhost/retail_db \  
--username root --password cloudera \  
--target-dir /user/cloudera/orders-incremental \  
--table orders \  
--incremental append \  
--check-column order_id \  
--last-value 100003
```

Hive Import

Hive Import

```
sqoop import \  
--connect "jdbc:mysql://localhost/retail_db" \  
--username root \  
--password cloudera \  
--table customers \  
--hive-import \  
--create-hive-table \  
--hive-database default \  
--hive-table customer_mysql
```

Hive Import change field delimiter

```
sqoop import \  
--connect "jdbc:mysql://localhost/retail_db" \  
--username root \  
--password cloudera \  
--table customers \  
--fields-terminated-by '|' \  
--hive-import \  
--create-hive-table \  
--hive-database default \  
--hive-table customer_mysql_new
```