

# **Zeyobron Bigdata Analytics**

# **Project phase-1**

Name : Navaneetha Krishnan

Mobile no : 9600730899

Project Reporting: Mr - Sai Adithya

### **Contents**

- Verify you have customer\_total table
- Create customer\_src table like customer\_total
- > Insert into customer\_src from customer\_total where id>300 and id<350
- Create a password file your edge Node == (echo -n cloudera>passfile)
- Create a directory in Edge Node
- Go inside that directory
- Create sqoop job for customer\_src table with id last value 0 along with psw\_file
- Execute the Job
- > Verify whether data got imported
- > AVSC file should have generated locally-- Copy that to HDFS
- > Go inside Hive shell and create database prodb
- Now create Hive table on top of raw data with AVSC FILE as reference



# **Project phase-1**

### 1) Verify you have customer\_total table

Login to MySQL [ mysql -uroot -pcloudera ]

View all databases [ show databases; ]



Select prodb [ use prodb; ]

View all tables [show tables; ]



#### 2) Create customer\_src table like customer\_total

Command to create customer\_src table

[ create table customer\_src(id int(10),username varchar(100),sub\_port varchar(100),host varchar(100),date\_time varchar(100),hit\_count\_var\_1 varchar(100),hit\_count\_var\_2 varchar(100),hit\_count\_var\_3 varchar(100),timezone varchar(100),method varchar(100),procedure varchar(100),value varchar(100),sub\_product varchar(100),web\_info varchar(100),status\_code varchar(100));

Field	Type	Null	Key	Default	Extra
id	int(10)	YES	i	NULL	i
username	varchar(100)	YES		NULL	1
sub port	varchar (100)	YES		NULL	1
host	varchar (100)	YES		NULL	1
date time	varchar(100)	YES		NULL	ĺ
hit count val 1	varchar(100)	YES		NULL	ĺ
hit count val 2	varchar (100)	YES		NULL	i .
hit count val 3	varchar (100)	YES		NULL	1
timezone	varchar(100)	YES		NULL	1
method	varchar (100)	YES		NULL	ĺ
procedure	varchar(100)	YES		NULL	i
value	varchar(100)	YES		NULL	ĺ
sub product	varchar(100)	YES		NULL	1
web info	varchar (100)	YES		NULL	1
status code	varchar(100)	YES		NULL	i

View all tables [ show tables; ]

```
mysql> show tables;

+-----+

| Tables_in_prodb |

+-----+

| customer_src |

| customer_total |

+-----+

2 rows in set (0.00 sec)
```

### 3) Insert into customer\_src from customer\_total where id>300 and id<350

View all tables [ insert into customer\_src select \* from customer\_total where id>300 and id<350; ]



4) Create a password file your edge Node == (echo -n cloudera>passfile)

Create edge node pass file [echo -n Aditya908>/home/itvoo4084/apassfile ]

5) Create a directory in Edge Node

Directory in edge node [mkdir pharsedir ]

6) Go inside that directory

Directory inside edge node [cd pharsedir]

7) Create sqoop job for customer\_src table with id last value 0 along with password file

sqoop job delete command [sqoop job --delete pjob ]

sqoop job create [ sqoop job --create pjob -- import --connect
jdbc:mysql://localhost/datap --username root --password-file file:///home/cloudera/pfile -m 1 --table intab --target-dir /user/cloudera/datap --incremental append --check-column id
--last-value o --as-avrodatafile ]

```
[itv0040848g02 -]$ sqoop job --create mobilejob -- import --connect jdbc:mysql://zeyod2.czgbk94pezaa.ap-south-1.rds.amazonaws.com/itv004084 --username root --password-file file:///home/itv004084/fpile --m 1 --table itv004084 --target-dir /user/itv004084/datap --incremental append --check-column id --last-value 0
Warning: /opt/sqoop/../horatalog does not exist! Mcatalog jobs will fail.
Please set $HCAI_HOME to the root of your HCatalog installation.
Warning: /opt/sqoop/../accumulo does not exist! Accumulo imports will fail.
Please set $ACCUMULO HOME to the root of your Accumulo imports will fail.
Please set $ACCUMULO HOME to the root of your Accumulo installation.
SLF40: Class path contains multiple SLF40 bindings.
SLF40: Found binding in [jar:file:/opt/hadoop-3.3.0/share/hadoop/common/lib/slf4j-log4j12-1.7.25.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF40: Found binding in [jar:file:/opt/hadooh-hive-3.1.2-bin/lib/log4j-slf4j-impl-2.10.0.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF40: See http://www.slf4j.org/codes.htmlfmultiple bindings for an explanation.
SLF40: Accumal binding is of type [org.slf4j.jmpl.Log4j102eprFactory]
2022-11-03 02:53:34,215 INFO sqoop.Sqoop: Running Sqoop version: 1.4.7
[itv0040848g02 -]$
```

### 8) Execute the Job

sqoop job execute command [sqoop job --exec pjob]

```
| Introduces | Second place | Second
```



### 9) Verify whether data got imported

Data importing command [hadoop fs -ls /user/itvoo4084/customer\_data]

### 10) AVSC file should have generated locally-- Copy that to HDFS

Create one directory command [hadoop fs -mkdir /user/cloudera/projectavsc]

Move file edge node command [hadoop fs-put /home/cloudera/phase1/customer\_src.avsc/user/cloudera/projectavsc]

```
[cloudera@quickstart phase1]$ ls -1
total 44
-rw-rw-r-- 1 cloudera cloudera 2280 Oct 29 13:24 customer_src.avsc
-rw-rw-r-- 1 cloudera cloudera 38088 Oct 29 13:24 customer_src.java
[cloudera@quickstart phase1]$
```



### 11) Go inside Hive shell and create database prodb;

Hive shell command [ hive ], [ create database prodb; ], [ use prodb; ]

#### 12) Now create Hive table on top of raw data with AVSC FILE as reference

Hive raw data command [create table customer\_src row format serde 'org.apache.hadoop.hive.serde2.avro.AvroSerDe' STORED AS AVRO LOCATION '/user/cloudera/customer\_data' TBLPROPERTIES ('avro.schema.url'='/user/cloudera/projectavro/customer\_src.avsc');]

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