Exporting data from Hive tables to HBase tables

1) Create a table in HBase:

```
hbase(main):004:0> create 'HBase_Online_Retail','cf'
0 row(s) in 0.8940 seconds
```

2) Create a table in Hive:

```
[cloudera@quickstart ~]$ hive
Logging initialized using configuration in file:/etc/hive/conf.dist/hive-log4j.properties
WARNING: Hive CLI is deprecated and migration to Beeline is recommended.
hive> create table OnlineRetail(
   > invoiceno string,
   > stockcode int,
   > description string,
   > quantity int,
   > invoicedate string,
   > unitprice int,
   > custid int,
   > country string)
   > row format delimited
   > fields terminated by ','
   > stored as textfile;
Time taken: 1.593 seconds
```

3) Load data in the Hive table

```
hive> load data local inpath '/home/cloudera/OnlineRetail.csv' into table OnlineRetail;
Loading data to table default.onlineretail
Table default.onlineretail stats: [numFiles=1, totalSize=46133213]
OK
Time taken: 3.019 seconds
```

4) Create external table in Hive for connecting to the HBase table

5) Load data from Hive table to external Hive-HBase table Insert into hbaseonlineretail select * from OnlineRetail;

6) Scan from HBase table

```
        Name
        COLUMN+CELL

        336365
        column=cf:country, timestamp=1715339379511, value=17850

        356365
        column=cf:country, timestamp=1715339379511, value=6LASS STAR FROSTED T-LIGHT HOLDER

        356365
        column=cf:description, timestamp=1715339379511, value=6LASS STAR FROSTED T-LIGHT HOLDER

        356365
        column=cf:invoicedate, timestamp=1715339379511, value=0-1.12-2010 08:26

        536365
        column=cf:quantity, timestamp=1715339379511, value=21730

        536365
        column=cf:unitprice, timestamp=1715339379511, value=21730

        536366
        column=cf:country, timestamp=1715339379511, value=4

        536366
        column=cf:country, timestamp=1715339379511, value=HAND WARMER RED POLKA DOT

        536366
        column=cf:invitiprice, timestamp=1715339379511, value=0-1.12-2010 08:28

        536366
        column=cf:quantity, timestamp=1715339379511, value=0-1.2-2010 08:28

        536366
        column=cf:sockcode, timestamp=1715339379511, value=2632

        536367
        column=cf:custid, timestamp=1715339379511, value=0-112-2010 08:34

        536367
        column=cf:custid, timestamp=1715339379511, value=0-112-2010 08:34

        536367
        column=cf:custid, timestamp=1715339379511, value=0-112-2010 08:34

        536367
        column=cf:unitprice, timestamp=1715339379511, value=0-112-2010 08:34

        536367
        column=cf:unitprice, ti
```

7) Queries:

- create index idx on table OnlineRetail(invoiceno) as "compact" with deferred rebuild;
- select sum(quantity*price) as total_sales, avg(quantity*price) as avg_sales from OnlineRetail;
- select invoiceno, sum(quantity*price) as total_cost from OnlineRetail group by invoiceno order by total_cost desc limit 1;
- select customerid, sum(quantity*price) as total_cost from OnlineRetail group by customerid order by total_cost desc limit 1;
- select country, sum(quantity*price) as max_sale from OnlineRetail group by country order by max_sale desc limit 1;
- select country, sum(quantity*price) as min_sale from OnlineRetail group by country order by min_sale asc limit 1;