

Hbase and Hive connectivity

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Existing table in hive: -

```
hive> desc sales_order_csv;
OK
order_id          int
quant             int
price_each        int
sales             double
month            int
year             int
product           string
city             string
country          string
Time taken: 0.299 seconds, Fetched: 9 row(s)
```

Creating Hbase table: -

```
hbase(main):001:0> create 'sales_order', 'sales_info', 'time_info', 'location_info'
0 row(s) in 6.1990 seconds

=> Hbase::Table - sales_order
hbase(main):002:0> list
TABLE
sales_order
1 row(s) in 0.0520 seconds

=> ["sales_order"]
```

Creating Hive table: -

```
hive> CREATE EXTERNAL TABLE IF not exists hbase_sales_order
> (key int,
> quant int,
> price_each int,
> sales double,
> month int,
> year int,
> product string,
> city string,
> country string
> )
> ROW FORMAT DELIMITED
> FIELDS TERMINATED BY ','
> STORED BY 'org.apache.hadoop.hive.hbase.HBaseStorageHandler'
> WITH SERDEPROPERTIES
> ("hbase.columns.mapping"=":key,sales_info:quant,sales_info:price_each,sales_info:sales,sales_info:product,time_info:month,time_in
fo:year,location_info:city,location_info:country")
> TBLPROPERTIES("hbase.table.name"="sales_order");
OK
Time taken: 0.498 seconds
```

Inserting data in hive table: -

```
hive> select * from hbase_sales_order;
OK
Time taken: 1.925 seconds
hive> insert into table hbase_sales_order select * from sales_order_csv;
```

Conformation: -

```
hive> select * from hbase_sales_order limit 5;
OK
10100  49      34      1689.03 1      2003  Vintage Cars  Nashua  USA
10101  46      53      2472.96 1      2003  Vintage Cars  Frankfurt  Germany
10102  41      50      2055.74 1      2003  Vintage Cars  NYC      USA
10103  42      100     4460.82 1      2003  Classic Cars  Stavern  Norway
10104  32      53      1705.92 1      2003  Trains  Madrid  Spain
Time taken: 1.151 seconds, Fetched: 5 row(s)
```

Same data is available in Hbase as well: -

```
hbase(main):003:0> get 'sales_order','10100'
COLUMN                                CELL
location_info:city                    timestamp=1667382849573, value=Nashua
location_info:country                 timestamp=1667382849573, value=USA
sales_info:price_each                 timestamp=1667382849573, value=34
sales_info:product                    timestamp=1667382849573, value=1
sales_info:quant                      timestamp=1667382849573, value=49
sales_info:sales                      timestamp=1667382849573, value=1689.03
time_info:month                       timestamp=1667382849573, value=2003
time_info:year                        timestamp=1667382849573, value=Vintage Cars
8 row(s) in 0.5020 seconds
```