Creating Lookup Table

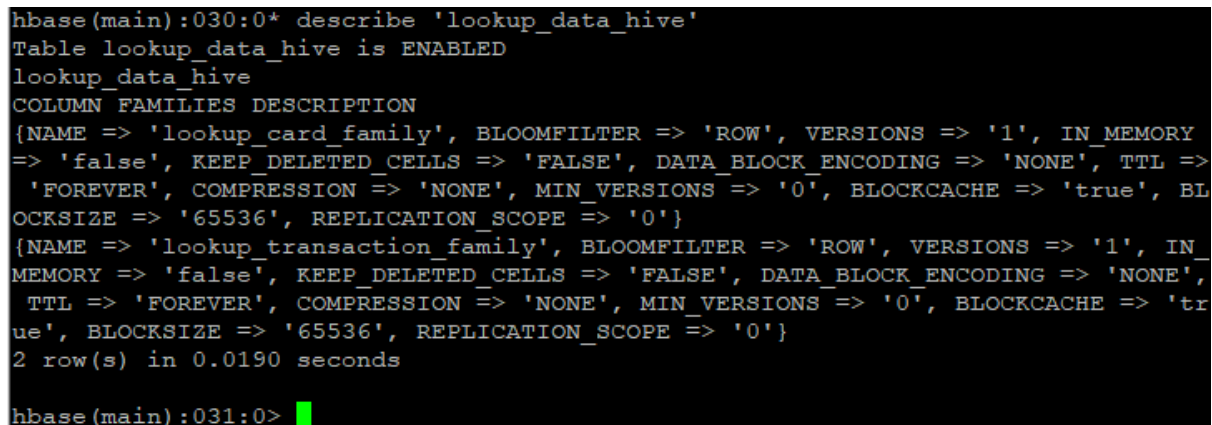**Command to create the Lookup Table**

```
CREATE TABLE LOOKUP_DATA_HBASE
(`CARD_ID` STRING,
`UCL` DOUBLE,
`SCORE` INT,
`POSTCODE` STRING,
`TRANSACTION_DT` TIMESTAMP)
STORED BY 'org.apache.hadoop.hive.hbase.HBaseStorageHandler'
WITH SERDEPROPERTIES ("hbase.columns.mapping"=":key, lookup_card_family:ucl,
lookup_card_family:score, lookup_transaction_family:postcode,
lookup_transaction_family:transaction_dt")
TBLPROPERTIES ("hbase.table.name" = "lookup_data_hive");
```

Command to see the table created

DESCRIBE 'lookup_data_hive'

Screenshot of the created table

Additional Steps to alter lookup_data_hive for to set versions

1. In HBase, alter lookup_data_hive table and set VERSIONS to 10 for
    lookup_transaction_family. We are supposed to store last 10 transactions in lookup table so
    altering VERSIONS to 10. I have created 2 column families in lookup table namely
    lookup_card_family and lookup_transaction_family. Column family lookup_card_family has
    score and ucl as columns and will store only 1 VERSION. Column family
    lookup_transaction_family has postcode and transaction_dt and will store 10 VERSIONS

alter 'lookup_data_hive', {NAME => 'lookup_transaction_family', VERSIONS => 10}

```
hbase(main):031:0> alter 'lookup_data_hive', {NAME => 'lookup_transaction_family
', VERSIONS => 10}
Updating all regions with the new schema...
1/1 regions updated.
Done.
0 row(s) in 2.4200 seconds
```

2. In HBase, check details of lookup_data_hive and confirm that VERSIONS is set to 10 for lookup_transaction_family.
   describe 'lookup_data_hive'

```
hbase(main):032:0> describe 'lookup_data_hive'
Table lookup_data_hive is ENABLED
lookup_data_hive
COLUMN FAMILIES DESCRIPTION
{NAME => 'lookup_card_family', BLOOMFILTER => 'ROW', VERSIONS => '1', IN_MEMORY
=> 'false', KEEP_DELETED_CELLS => 'FALSE', DATA_BLOCK_ENCODING => 'NONE', TTL =>
 'FOREVER', COMPRESSION => 'NONE', MIN_VERSIONS => '0', BLOCKCACHE => 'true', BL
OCKSIZE => '65536', REPLICATION_SCOPE => '0'}
{NAME => 'lookup_transaction_family', BLOOMFILTER => 'ROW', VERSIONS => '10', IN
_MEMORY => 'false', KEEP_DELETED_CELLS => 'FALSE', DATA_BLOCK_ENCODING => 'NONE'
, TTL => 'FOREVER', COMPRESSION => 'NONE', MIN_VERSIONS => '0', BLOCKCACHE => 't
rue', BLOCKSIZE => '65536', REPLICATION_SCOPE => '0'}
2 row(s) in 0.0170 seconds
```