

## STATEMENTS TO CREATE HBASE THRESHOLD TABLE

script to create hbase table with 3 families (attr, limit, msg)

1.Run below command to create table with 3 families in hbase

create 'threshold\_reference\_table', 'attribute','limit','alert'

```
hbase:004:0> create 'threshold_reference_table', 'attribute','limit','alert'
Created table threshold_reference_table
Took 1.9372 seconds
=> Hbase:Table - threshold_reference_table
hbase:005:0> describe 'threshold_reference_table'
Table threshold_reference_table is ENABLED
threshold_reference_table
COLUMN FAMILIES DESCRIPTION
(NAME => 'alert', BLOOMFILTER => 'ROW', IN_MEMORY => 'false', VERSIONS => '1', KEEP_DELETED_CELLS => 'FALSE', DATA_BLOCK_ENCODING => 'NONE', COMPRESSION => 'NONE', TTL
=> 'FOREVER', MIN_VERSIONS => '0', BLOCKCACHE => 'true', BLOCKSIZE => '65536', REPLICATION_SCOPE => '0')

(NAME => 'attribute', BLOOMFILTER => 'ROW', IN_MEMORY => 'false', VERSIONS => '1', KEEP_DELETED_CELLS => 'FALSE', DATA_BLOCK_ENCODING => 'NONE', COMPRESSION => 'NONE',
TTL => 'FOREVER', MIN_VERSIONS => '0', BLOCKCACHE => 'true', BLOCKSIZE => '65536', REPLICATION_SCOPE => '0')

(NAME => 'limit', BLOOMFILTER => 'ROW', IN_MEMORY => 'false', VERSIONS => '1', KEEP_DELETED_CELLS => 'FALSE', DATA_BLOCK_ENCODING => 'NONE', COMPRESSION => 'NONE', TTL
=> 'FOREVER', MIN_VERSIONS => '0', BLOCKCACHE => 'true', BLOCKSIZE => '65536', REPLICATION_SCOPE => '0')

3 row(s)
Quota is disabled
Took 0.1660 seconds
hbase:006:0> []
```

2.Run the below command to insert 12 records into the tables

```
put 'threshold_reference_table','1','attribute:attribute','heartBeat'
put 'threshold_reference_table','2','attribute:attribute','heartBeat'
put 'threshold_reference_table','3','attribute:attribute','heartBeat'
put 'threshold_reference_table','4','attribute:attribute','bp'
put 'threshold_reference_table','5','attribute:attribute','bp'
put 'threshold_reference_table','6','attribute:attribute','bp'
put 'threshold_reference_table','7','attribute:attribute','heartBeat'
put 'threshold_reference_table','8','attribute:attribute','heartBeat'
put 'threshold_reference_table','9','attribute:attribute','heartBeat'
put 'threshold_reference_table','10','attribute:attribute','bp'
put 'threshold_reference_table','11','attribute:attribute','bp'
put 'threshold_reference_table','12','attribute:attribute','bp'
put 'threshold_reference_table','1','limit:low_age_limit','0'
put 'threshold_reference_table','1','limit:high_age_limit','40'
put 'threshold_reference_table','2','limit:low_age_limit','0'
put 'threshold_reference_table','2','limit:high_age_limit','40'
put 'threshold_reference_table','3','limit:low_age_limit','0'
put 'threshold_reference_table','3','limit:high_age_limit','40'
put 'threshold_reference_table','4','limit:low_age_limit','0'
put 'threshold_reference_table','4','limit:high_age_limit','40'
put 'threshold_reference_table','5','limit:low_age_limit','0'
put 'threshold_reference_table','5','limit:high_age_limit','40'
put 'threshold_reference_table','6','limit:low_age_limit','0'
put 'threshold_reference_table','6','limit:high_age_limit','40'
```

```
put 'threshold_reference_table','7','limit:low_age_limit','41'  
put 'threshold_reference_table','7','limit:high_age_limit','100'  
put 'threshold_reference_table','8','limit:low_age_limit','41'  
put 'threshold_reference_table','8','limit:high_age_limit','100'  
put 'threshold_reference_table','9','limit:low_age_limit','41'  
put 'threshold_reference_table','9','limit:high_age_limit','100'  
put 'threshold_reference_table','10','limit:low_age_limit','41'  
put 'threshold_reference_table','10','limit:high_age_limit','100'  
put 'threshold_reference_table','11','limit:low_age_limit','41'  
put 'threshold_reference_table','11','limit:high_age_limit','100'  
put 'threshold_reference_table','12','limit:low_age_limit','41'  
put 'threshold_reference_table','12','limit:high_age_limit','100'  
put 'threshold_reference_table','1','limit:low_value','0'  
put 'threshold_reference_table','1','limit:high_value','69'  
put 'threshold_reference_table','2','limit:low_value','70'  
put 'threshold_reference_table','2','limit:high_value','78'  
put 'threshold_reference_table','3','limit:low_value','79'  
put 'threshold_reference_table','3','limit:high_value','9999'  
put 'threshold_reference_table','4','limit:low_value','0'  
put 'threshold_reference_table','4','limit:high_value','160'  
put 'threshold_reference_table','5','limit:low_value','161'  
put 'threshold_reference_table','5','limit:high_value','220'  
put 'threshold_reference_table','6','limit:low_value','221'  
put 'threshold_reference_table','6','limit:high_value','9999'  
put 'threshold_reference_table','7','limit:low_value','0'  
put 'threshold_reference_table','7','limit:high_value','65'  
put 'threshold_reference_table','8','limit:low_value','66'  
put 'threshold_reference_table','8','limit:high_value','73'  
put 'threshold_reference_table','9','limit:low_value','74'  
put 'threshold_reference_table','9','limit:high_value','9999'  
put 'threshold_reference_table','9','limit:low_value','74'  
put 'threshold_reference_table','9','limit:high_value','9999'  
put 'threshold_reference_table','10','limit:low_value','0'  
put 'threshold_reference_table','10','limit:high_value','150'  
put 'threshold_reference_table','11','limit:low_value','151'  
put 'threshold_reference_table','11','limit:high_value','180'  
put 'threshold_reference_table','12','limit:low_value','181'  
put 'threshold_reference_table','12','limit:high_value','9999'  
put 'threshold_reference_table','1','alert:alert_flag','1'  
put 'threshold_reference_table','2','alert:alert_flag','0'  
put 'threshold_reference_table','3','alert:alert_flag','1'  
put 'threshold_reference_table','4','alert:alert_flag','1'  
put 'threshold_reference_table','5','alert:alert_flag','0'  
put 'threshold_reference_table','6','alert:alert_flag','1'
```

```

put 'threshold_reference_table','7','alert:alert_flag','1'
put 'threshold_reference_table','8','alert:alert_flag','0'
put 'threshold_reference_table','9','alert:alert_flag','1'
put 'threshold_reference_table','10','alert:alert_flag','1'
put 'threshold_reference_table','11','alert:alert_flag','0'
put 'threshold_reference_table','12','alert:alert_flag','1'
put 'threshold_reference_table','1','alert:alert_message','Low Heart Rate than normal'
put 'threshold_reference_table','2','alert:alert_message','normal'
put 'threshold_reference_table','3','alert:alert_message','Higher Heart Rate than normal'
put 'threshold_reference_table','4','alert:alert_message','Low BP than normal'
put 'threshold_reference_table','5','alert:alert_message','normal'
put 'threshold_reference_table','6','alert:alert_message','Higher BP than normal'
put 'threshold_reference_table','7','alert:alert_message','Low Heart Rate than normal'
put 'threshold_reference_table','8','alert:alert_message','normal'
put 'threshold_reference_table','9','alert:alert_message','Higher Heart Rate than normal'
put 'threshold_reference_table','10','alert:alert_message','Low BP than normal'
put 'threshold_reference_table','11','alert:alert_message','normal'
put 'threshold_reference_table','12','alert:alert_message','Higher BP than normal'

```

```

hbase:282:0> put 'threshold_reference_table','3','alert:alert_flag','1'
Took 0.0014 seconds
hbase:283:0> put 'threshold_reference_table','4','alert:alert_flag','1'
Took 0.0011 seconds
hbase:284:0> put 'threshold_reference_table','5','alert:alert_flag','0'
Took 0.0012 seconds
hbase:285:0> put 'threshold_reference_table','6','alert:alert_flag','1'
Took 0.0015 seconds
hbase:286:0> put 'threshold_reference_table','7','alert:alert_flag','1'
Took 0.0014 seconds
hbase:287:0> put 'threshold_reference_table','8','alert:alert_flag','0'
Took 0.0013 seconds
hbase:288:0> put 'threshold_reference_table','9','alert:alert_flag','1'
Took 0.0012 seconds
hbase:289:0> put 'threshold_reference_table','10','alert:alert_flag','1'
Took 0.0014 seconds
hbase:290:0> put 'threshold_reference_table','11','alert:alert_flag','0'
Took 0.0013 seconds
hbase:291:0> put 'threshold_reference_table','12','alert:alert_flag','1'
Took 0.0012 seconds
hbase:292:0> put 'threshold_reference_table','1','alert:alert_message','Low Heart Rate than normal'
Took 0.0012 seconds
hbase:293:0> put 'threshold_reference_table','2','alert:alert_message','normal'
Took 0.0012 seconds
hbase:294:0> put 'threshold_reference_table','3','alert:alert_message','Higher Heart Rate than normal'
Took 0.0012 seconds
hbase:295:0> put 'threshold_reference_table','4','alert:alert_message','Low BP than normal'
Took 0.0014 seconds
hbase:296:0> put 'threshold_reference_table','5','alert:alert_message','normal'
Took 0.0015 seconds
hbase:297:0> put 'threshold_reference_table','6','alert:alert_message','Higher BP than normal'
Took 0.0021 seconds
hbase:298:0> put 'threshold_reference_table','7','alert:alert_message','Low Heart Rate than normal'
Took 0.0014 seconds
hbase:299:0> put 'threshold_reference_table','8','alert:alert_message','normal'
Took 0.0018 seconds
hbase:300:0> put 'threshold_reference_table','9','alert:alert_message','Higher Heart Rate than normal'
Took 0.0016 seconds
hbase:301:0> put 'threshold_reference_table','10','alert:alert_message','Low BP than normal'
Took 0.0018 seconds
hbase:302:0> put 'threshold_reference_table','11','alert:alert_message','normal'
Took 0.0017 seconds
hbase:303:0> put 'threshold_reference_table','12','alert:alert_message','Higher BP than normal'

```

3.Run the below command to view the records

scan 'threshold\_reference\_table';

```
hbase:304:0> scan 'threshold_reference_table';
ROW                                COLUMN+CELL
1                                  column=alert:alert_flag, timestamp=2023-07-09T15:19:26.873, value=1
1                                  column=alert:alert_message, timestamp=2023-07-09T15:19:26.999, value=Low Heart Rate than normal
1                                  column=attribute:attribute, timestamp=2023-07-09T15:19:26.192, value=heartBeat
1                                  column=limit:high_age_limit, timestamp=2023-07-09T15:19:26.338, value=40
1                                  column=limit:high_value, timestamp=2023-07-09T15:19:26.591, value=69
1                                  column=limit:low_age_limit, timestamp=2023-07-09T15:19:26.328, value=0
1                                  column=limit:low_value, timestamp=2023-07-09T15:19:26.581, value=0
10                                 column=alert:alert_flag, timestamp=2023-07-09T15:19:26.965, value=1
10                                 column=alert:alert_message, timestamp=2023-07-09T15:19:27.103, value=Low BP than normal
10                                 column=attribute:attribute, timestamp=2023-07-09T15:19:26.291, value=bp
10                                 column=limit:high_age_limit, timestamp=2023-07-09T15:19:26.530, value=100
10                                 column=limit:high_value, timestamp=2023-07-09T15:19:26.821, value=150
10                                 column=limit:low_age_limit, timestamp=2023-07-09T15:19:26.517, value=41
10                                 column=limit:low_value, timestamp=2023-07-09T15:19:26.811, value=0
11                                 column=alert:alert_flag, timestamp=2023-07-09T15:19:26.980, value=0
11                                 column=alert:alert_message, timestamp=2023-07-09T15:19:27.114, value=normal
11                                 column=attribute:attribute, timestamp=2023-07-09T15:19:26.302, value=bp
11                                 column=limit:high_age_limit, timestamp=2023-07-09T15:19:26.551, value=100
11                                 column=limit:high_value, timestamp=2023-07-09T15:19:26.840, value=180
11                                 column=limit:low_age_limit, timestamp=2023-07-09T15:19:26.539, value=41
11                                 column=limit:low_value, timestamp=2023-07-09T15:19:26.830, value=151
12                                 column=alert:alert_flag, timestamp=2023-07-09T15:19:26.990, value=1
12                                 column=alert:alert_message, timestamp=2023-07-09T15:19:27.126, value=Higher BP than normal
12                                 column=attribute:attribute, timestamp=2023-07-09T15:19:26.312, value=bp
12                                 column=limit:high_age_limit, timestamp=2023-07-09T15:19:26.571, value=100
12                                 column=limit:high_value, timestamp=2023-07-09T15:19:26.864, value=9999
12                                 column=limit:low_age_limit, timestamp=2023-07-09T15:19:26.561, value=41
12                                 column=limit:low_value, timestamp=2023-07-09T15:19:26.854, value=181
2                                  column=alert:alert_flag, timestamp=2023-07-09T15:19:26.883, value=0
2                                  column=alert:alert_message, timestamp=2023-07-09T15:19:27.010, value=normal
2                                  column=attribute:attribute, timestamp=2023-07-09T15:19:26.205, value=heartBeat
2                                  column=limit:high_age_limit, timestamp=2023-07-09T15:19:26.361, value=40
2                                  column=limit:high_value, timestamp=2023-07-09T15:19:26.611, value=78
2                                  column=limit:low_age_limit, timestamp=2023-07-09T15:19:26.348, value=0
2                                  column=limit:low_value, timestamp=2023-07-09T15:19:26.601, value=70
3                                  column=alert:alert_flag, timestamp=2023-07-09T15:19:26.893, value=1
3                                  column=alert:alert_message, timestamp=2023-07-09T15:19:27.020, value=Higher Heart Rate than normal
3                                  column=attribute:attribute, timestamp=2023-07-09T15:19:26.219, value=heartBeat
3                                  column=limit:high_age_limit, timestamp=2023-07-09T15:19:26.381, value=40
3                                  column=limit:high_value, timestamp=2023-07-09T15:19:26.635, value=9999
3                                  column=limit:low_age_limit, timestamp=2023-07-09T15:19:26.371, value=0
```

```
4                                  column=attribute:attribute, timestamp=2023-07-09T15:19:26.230, value=bp
4                                  column=limit:high_age_limit, timestamp=2023-07-09T15:19:26.399, value=40
4                                  column=limit:high_value, timestamp=2023-07-09T15:19:26.659, value=160
4                                  column=limit:low_age_limit, timestamp=2023-07-09T15:19:26.390, value=0
4                                  column=limit:low_value, timestamp=2023-07-09T15:19:26.646, value=0
5                                  column=alert:alert_flag, timestamp=2023-07-09T15:19:26.912, value=0
5                                  column=alert:alert_message, timestamp=2023-07-09T15:19:27.040, value=normal
5                                  column=attribute:attribute, timestamp=2023-07-09T15:19:26.241, value=bp
5                                  column=limit:high_age_limit, timestamp=2023-07-09T15:19:26.419, value=40
5                                  column=limit:high_value, timestamp=2023-07-09T15:19:26.688, value=220
5                                  column=limit:low_age_limit, timestamp=2023-07-09T15:19:26.409, value=0
5                                  column=limit:low_value, timestamp=2023-07-09T15:19:26.678, value=161
6                                  column=alert:alert_flag, timestamp=2023-07-09T15:19:26.922, value=1
6                                  column=alert:alert_message, timestamp=2023-07-09T15:19:27.051, value=Higher BP than normal
6                                  column=attribute:attribute, timestamp=2023-07-09T15:19:26.251, value=bp
6                                  column=limit:high_age_limit, timestamp=2023-07-09T15:19:26.446, value=40
6                                  column=limit:high_value, timestamp=2023-07-09T15:19:26.708, value=9999
6                                  column=limit:low_age_limit, timestamp=2023-07-09T15:19:26.428, value=0
6                                  column=limit:low_value, timestamp=2023-07-09T15:19:26.698, value=221
7                                  column=alert:alert_flag, timestamp=2023-07-09T15:19:26.934, value=1
7                                  column=alert:alert_message, timestamp=2023-07-09T15:19:27.063, value=Low Heart Rate than normal
7                                  column=attribute:attribute, timestamp=2023-07-09T15:19:26.262, value=heartBeat
7                                  column=limit:high_age_limit, timestamp=2023-07-09T15:19:26.468, value=100
7                                  column=limit:high_value, timestamp=2023-07-09T15:19:26.728, value=65
7                                  column=limit:low_age_limit, timestamp=2023-07-09T15:19:26.457, value=41
7                                  column=limit:low_value, timestamp=2023-07-09T15:19:26.718, value=0
8                                  column=alert:alert_flag, timestamp=2023-07-09T15:19:26.944, value=0
8                                  column=alert:alert_message, timestamp=2023-07-09T15:19:27.080, value=normal
8                                  column=attribute:attribute, timestamp=2023-07-09T15:19:26.272, value=heartBeat
8                                  column=limit:high_age_limit, timestamp=2023-07-09T15:19:26.488, value=100
8                                  column=limit:high_value, timestamp=2023-07-09T15:19:26.749, value=73
8                                  column=limit:low_age_limit, timestamp=2023-07-09T15:19:26.479, value=41
8                                  column=limit:low_value, timestamp=2023-07-09T15:19:26.738, value=66
9                                  column=alert:alert_flag, timestamp=2023-07-09T15:19:26.955, value=1
9                                  column=alert:alert_message, timestamp=2023-07-09T15:19:27.092, value=Higher Heart Rate than normal
9                                  column=attribute:attribute, timestamp=2023-07-09T15:19:26.281, value=heartBeat
9                                  column=limit:high_age_limit, timestamp=2023-07-09T15:19:26.507, value=100
9                                  column=limit:high_value, timestamp=2023-07-09T15:19:26.802, value=9999
9                                  column=limit:low_age_limit, timestamp=2023-07-09T15:19:26.498, value=41
9                                  column=limit:low_value, timestamp=2023-07-09T15:19:26.790, value=74
12 row(s)
Took 0.0652 seconds
hbase:305:0>
```