

## STATEMENTS TO CREATE HBASE THRESHOLD TABLE

```
create 'threshold_reference_table', 'attribute', 'limit', 'alert'
describe 'threshold_reference_table'
```

```
put 'threshold_reference_table', 'row1', 'attribute:attribute', 'value=heartBeat'
put 'threshold_reference_table', 'row2', 'attribute:attribute', 'value=heartBeat'
put 'threshold_reference_table', 'row3', 'attribute:attribute', 'value=heartBeat'
put 'threshold_reference_table', 'row4', 'attribute:attribute', 'value=bp'
put 'threshold_reference_table', 'row5', 'attribute:attribute', 'value=bp'
put 'threshold_reference_table', 'row6', 'attribute:attribute', 'value=bp'
put 'threshold_reference_table', 'row7', 'attribute:attribute', 'value=heartBeat'
put 'threshold_reference_table', 'row8', 'attribute:attribute', 'value=heartBeat'
put 'threshold_reference_table', 'row9', 'attribute:attribute', 'value=heartBeat'
put 'threshold_reference_table', 'row10', 'attribute:attribute', 'value=bp'
put 'threshold_reference_table', 'row11', 'attribute:attribute', 'value=bp'
put 'threshold_reference_table', 'row12', 'attribute:attribute', 'value=bp'
```

```
put 'threshold_reference_table', 'row1', 'limit:low_age_limit', 'value=0'
put 'threshold_reference_table', 'row1', 'limit:high_age_limit', 'value=40'
put 'threshold_reference_table', 'row2', 'limit:low_age_limit', 'value=0'
put 'threshold_reference_table', 'row2', 'limit:high_age_limit', 'value=40'
put 'threshold_reference_table', 'row3', 'limit:low_age_limit', 'value=0'
put 'threshold_reference_table', 'row3', 'limit:high_age_limit', 'value=40'
put 'threshold_reference_table', 'row4', 'limit:low_age_limit', 'value=0'
put 'threshold_reference_table', 'row4', 'limit:high_age_limit', 'value=40'
put 'threshold_reference_table', 'row5', 'limit:low_age_limit', 'value=0'
put 'threshold_reference_table', 'row5', 'limit:high_age_limit', 'value=40'
put 'threshold_reference_table', 'row6', 'limit:low_age_limit', 'value=0'
put 'threshold_reference_table', 'row6', 'limit:high_age_limit', 'value=40'
put 'threshold_reference_table', 'row7', 'limit:low_age_limit', 'value=41'
put 'threshold_reference_table', 'row7', 'limit:high_age_limit', 'value=100'
put 'threshold_reference_table', 'row8', 'limit:low_age_limit', 'value=41'
put 'threshold_reference_table', 'row8', 'limit:high_age_limit', 'value=100'
put 'threshold_reference_table', 'row9', 'limit:low_age_limit', 'value=41'
put 'threshold_reference_table', 'row9', 'limit:high_age_limit', 'value=100'
put 'threshold_reference_table', 'row10', 'limit:low_age_limit', 'value=41'
put 'threshold_reference_table', 'row10', 'limit:high_age_limit', 'value=100'
put 'threshold_reference_table', 'row11', 'limit:low_age_limit', 'value=41'
put 'threshold_reference_table', 'row11', 'limit:high_age_limit', 'value=100'
put 'threshold_reference_table', 'row12', 'limit:low_age_limit', 'value=41'
put 'threshold_reference_table', 'row12', 'limit:high_age_limit', 'value=100'
```

```

put 'threshold_reference_table','row1','limit:low_value','value=0'
put 'threshold_reference_table','row1','limit:high_value','value=69'
put 'threshold_reference_table','row2','limit:low_value','value=70'
put 'threshold_reference_table','row2','limit:high_value','value=78'
put 'threshold_reference_table','row3','limit:low_value','value=79'
put 'threshold_reference_table','row3','limit:high_value','value=9999'
put 'threshold_reference_table','row4','limit:low_value','value=0'
put 'threshold_reference_table','row4','limit:high_value','value=160'
put 'threshold_reference_table','row5','limit:low_value','value=161'
put 'threshold_reference_table','row5','limit:high_value','value=220'
put 'threshold_reference_table','row6','limit:low_value','value=221'
put 'threshold_reference_table','row6','limit:high_value','value=9999'
put 'threshold_reference_table','row7','limit:low_value','value=0'
put 'threshold_reference_table','row7','limit:high_value','value=65'
put 'threshold_reference_table','row8','limit:low_value','value=66'
put 'threshold_reference_table','row8','limit:high_value','value=73'
put 'threshold_reference_table','row9','limit:low_value','value=74'
put 'threshold_reference_table','row9','limit:high_value','value=9999'
put 'threshold_reference_table','row9','limit:low_value','value=74'
put 'threshold_reference_table','row9','limit:high_value','value=9999'
put 'threshold_reference_table','row10','limit:low_value','value=0'
put 'threshold_reference_table','row10','limit:high_value','value=150'
put 'threshold_reference_table','row11','limit:low_value','value=151'
put 'threshold_reference_table','row11','limit:high_value','value=180'
put 'threshold_reference_table','row12','limit:low_value','value=181'
put 'threshold_reference_table','row12','limit:high_value','value=9999'

```

```

put 'threshold_reference_table','row1','alert:alert_flag','value=1'
put 'threshold_reference_table','row2','alert:alert_flag','value=0'
put 'threshold_reference_table','row3','alert:alert_flag','value=1'
put 'threshold_reference_table','row4','alert:alert_flag','value=1'
put 'threshold_reference_table','row5','alert:alert_flag','value=0'
put 'threshold_reference_table','row6','alert:alert_flag','value=1'
put 'threshold_reference_table','row7','alert:alert_flag','value=1'
put 'threshold_reference_table','row8','alert:alert_flag','value=0'
put 'threshold_reference_table','row9','alert:alert_flag','value=1'
put 'threshold_reference_table','row10','alert:alert_flag','value=1'
put 'threshold_reference_table','row11','alert:alert_flag','value=0'
put 'threshold_reference_table','row12','alert:alert_flag','value=1'

```

```

put 'threshold_reference_table','row1','alert:alert_message','value=Low Heart Rate than normal'
put 'threshold_reference_table','row2','alert:alert_message','value=normal'
put 'threshold_reference_table','row3','alert:alert_message','value=Higher Heart Rate than normal'

```

```
put 'threshold_reference_table','row4','alert:alert_message','value=Low BP than normal'  
put 'threshold_reference_table','row5','alert:alert_message','value=normal'  
put 'threshold_reference_table','row6','alert:alert_message','value=Higher BP than normal'  
put 'threshold_reference_table','row7','alert:alert_message','value=Low Heart Rate than normal'  
put 'threshold_reference_table','row8','alert:alert_message','value=normal'  
put 'threshold_reference_table','row9','alert:alert_message','value=Higher Heart Rate than  
normal'  
put 'threshold_reference_table','row10','alert:alert_message','value=Low BP than normal'  
put 'threshold_reference_table','row11','alert:alert_message','value=normal'  
put 'threshold_reference_table','row12','alert:alert_message','value=Higher BP than normal'  
  
scan 'threshold_reference_table'
```

```
hbase(main):114:0> scan 'threshold_reference_table'
ROW
row1 column-alert:alert_flag, timestamp=1636815792138, value=value-1
row1 column-alert:alert_message, timestamp=1636815792347, value=value-Low Heart Rate than normal
row1 column-attribute:attribute, timestamp=1636815790018, value=value-heartBeat
row1 column-limit:high_age_limit, timestamp=1636815791197, value=value=40
row1 column-limit:high_value, timestamp=1636815791658, value=value=69
row1 column-limit:low_age_limit, timestamp=1636815791170, value=value=0
row1 column-limit:low_value, timestamp=1636815791647, value=value=0
row10 column-alert:alert_flag, timestamp=1636815792285, value=value-1
row10 column-alert:alert_message, timestamp=1636815792463, value=value-Low BP than normal
row10 column-attribute:attribute, timestamp=1636815791074, value=value-bp
row10 column-limit:high_age_limit, timestamp=1636815791576, value=value=100
row10 column-limit:high_value, timestamp=1636815792039, value=value=150
row10 column-limit:low_age_limit, timestamp=1636815791556, value=value=41
row10 column-limit:low_value, timestamp=1636815792028, value=value=0
row11 column-alert:alert_flag, timestamp=1636815792303, value=value=0
row11 column-alert:alert_message, timestamp=1636815792479, value=value-normal
row11 column-attribute:attribute, timestamp=1636815791091, value=value-bp
row11 column-limit:high_age_limit, timestamp=1636815791601, value=value=100
row11 column-limit:high_value, timestamp=1636815792082, value=value=180
row11 column-limit:low_age_limit, timestamp=1636815791588, value=value=41
row11 column-limit:low_value, timestamp=1636815792057, value=value=151
row12 column-alert:alert_flag, timestamp=1636815792318, value=value-1
row12 column-alert:alert_message, timestamp=1636815792491, value=value-Higher BP than normal
row12 column-attribute:attribute, timestamp=1636815791118, value=value-bp
row12 column-limit:high_age_limit, timestamp=1636815791627, value=value=100
row12 column-limit:high_value, timestamp=1636815792116, value=value=9999
row12 column-limit:low_age_limit, timestamp=1636815791614, value=value=41
row12 column-limit:low_value, timestamp=1636815792102, value=value=181
row2 column-alert:alert_flag, timestamp=1636815792156, value=value=0
row2 column-alert:alert_message, timestamp=1636815792361, value=value-normal
row2 column-attribute:attribute, timestamp=1636815790074, value=value-heartBeat
row2 column-limit:high_age_limit, timestamp=1636815791241, value=value=40
row2 column-limit:high_value, timestamp=1636815791696, value=value=78
row2 column-limit:low_age_limit, timestamp=1636815791219, value=value=0
row2 column-limit:low_value, timestamp=1636815791673, value=value=70
row3 column-alert:alert_flag, timestamp=1636815792168, value=value-1
row3 column-alert:alert_message, timestamp=1636815792373, value=value-Higher Heart Rate than normal
row3 column-attribute:attribute, timestamp=1636815790520, value=value-heartBeat
row3 column-limit:high_age_limit, timestamp=1636815791203, value=value=40
row3 column-limit:high_value, timestamp=1636815791722, value=value=9999
row3 column-limit:low_age_limit, timestamp=1636815791258, value=value=0
row3 column-limit:low_value, timestamp=1636815791711, value=value=79
row4 column-alert:alert_flag, timestamp=1636815792188, value=value-1
row4 column-alert:alert_message, timestamp=1636815792387, value=value-Low BP than normal
row4 column-attribute:attribute, timestamp=1636815790941, value=value-bp
row4 column-limit:high_age_limit, timestamp=1636815791325, value=value=40
row4 column-limit:high_value, timestamp=1636815791749, value=value=160
row4 column-limit:low_age_limit, timestamp=1636815791306, value=value=0
row4 column-limit:low_value, timestamp=1636815791733, value=value=0
row5 column-alert:alert_flag, timestamp=1636815792203, value=value=0
row5 column-alert:alert_message, timestamp=1636815792482, value=value-normal
row5 column-attribute:attribute, timestamp=1636815790967, value=value-bp
row5 column-limit:high_age_limit, timestamp=1636815791364, value=value=40
row5 column-limit:high_value, timestamp=1636815791772, value=value=220
row5 column-limit:low_age_limit, timestamp=1636815791346, value=value=0
row5 column-limit:low_value, timestamp=1636815791760, value=value=161
row6 column-alert:alert_flag, timestamp=1636815792222, value=value-1
row6 column-alert:alert_message, timestamp=1636815792414, value=value-Higher BP than normal
row6 column-attribute:attribute, timestamp=1636815790989, value=value-bp
row6 column-limit:high_age_limit, timestamp=1636815791399, value=value=40
row6 column-limit:high_value, timestamp=1636815791877, value=value=9999
row6 column-limit:low_age_limit, timestamp=1636815791379, value=value=0
row6 column-limit:low_value, timestamp=1636815791834, value=value=221
row7 column-alert:alert_flag, timestamp=1636815792237, value=value-1
row7 column-alert:alert_message, timestamp=1636815792430, value=value-Low Heart Rate than normal
row7 column-attribute:attribute, timestamp=1636815791012, value=value-heartBeat
row7 column-limit:high_age_limit, timestamp=1636815791459, value=value=100
row7 column-limit:high_value, timestamp=1636815791940, value=value=65
row7 column-limit:low_age_limit, timestamp=1636815791434, value=value=41
row7 column-limit:low_value, timestamp=1636815791912, value=value=0
row8 column-alert:alert_flag, timestamp=1636815792253, value=value=0
row8 column-alert:alert_message, timestamp=1636815792441, value=value-normal
row8 column-attribute:attribute, timestamp=1636815791035, value=value-heartBeat
row8 column-limit:high_age_limit, timestamp=1636815791508, value=value=100
row8 column-limit:high_value, timestamp=1636815791967, value=value=73
row8 column-limit:low_age_limit, timestamp=1636815791487, value=value=41
row8 column-limit:low_value, timestamp=1636815791057, value=value=66
row9 column-alert:alert_flag, timestamp=1636815792269, value=value-1
row9 column-alert:alert_message, timestamp=1636815792451, value=value-Higher Heart Rate than normal
row9 column-attribute:attribute, timestamp=1636815791056, value=value-heartBeat
row9 column-limit:high_age_limit, timestamp=1636815791543, value=value=100
row9 column-limit:high_value, timestamp=1636815792018, value=value=9999
row9 column-limit:low_age_limit, timestamp=1636815791524, value=value=41
row9 column-limit:low_value, timestamp=1636815792006, value=value=74
2 row(s) in 0.8740 seconds
```

