## **HBase**

#### Statement:

```
create 'employees', {NAME=> 'private'}, {NAME=> 'public'} put 'employees', 'ID1', 'private:ssn', '111-222-334' put 'employees', 'ID2', 'private:ssn', '222-333-445' put 'employees', 'ID3', 'private:address', '123 State St.' put 'employees', 'ID1', 'private:address', '243 N. Wabash Av.'
```

```
hbase (main):001:0> create 'employees', {NAME=> 'private'}, {NAME=> 'public'}
0 row(s) in 0.6310 seconds

hbase (main):002:0> put 'employees', 'ID1', 'private:ssn', '111-222-334'
0 row(s) in 0.1000 seconds

hbase (main):003:0> put 'employees', 'ID2', 'private:ssn', '222-333-445'
0 row(s) in 0.0170 seconds

hbase (main):004:0> put 'employees', 'ID3', 'private:address', '123 State St.'
0 row(s) in 0.0150 seconds

hbase (main):005:0> put 'employees', 'ID1', 'private:address', '243 N. Wabash Av.'
0 row(s) in 0.0130 seconds
```

## **Output:**

scan 'employees'

## 2 new columns to the private family

## Statement:

```
put 'employees', 'ID1', 'private:homephone', '9856765243' put 'employees', 'ID2', 'private:homephone', '5496521489'
```

```
hbase(main):007:0> put 'employees', 'ID1', 'private:homephone', '9856765243' 0 row(s) in 0.0300 seconds

hbase(main):008:0> put 'employees', 'ID2', 'private:homephone', '5496521489' 0 row(s) in 0.0070 seconds
```

### **Output:**

scan 'employees'

```
hbase(main):009:0> scan 'employees'

ROW COLUMN+CELL

ID1 column=private:address, timestamp=1602827208447, value=243 N. Wabash Av.

ID1 column=private:homephone, timestamp=1602827519481, value=9856765243

ID1 column=private:snn, timestamp=1602827208258, value=11-222-334

ID2 column=private:homephone, timestamp=1602827208258, value=11-222-334

ID2 column=private:snn, timestamp=1602827208341, value=222-333-445

ID3 column=private:address, timestamp=1602827208405, value=123 State St.

3 row(s) in 0.0360 seconds
```

### Statement:

```
put 'employees', 'ID3', 'private:salary', '85000' put 'employees', 'ID4', 'private:salary', '65000'
```

```
hbase(main):010:0> put 'employees', 'ID3', 'private:salary', '85000'
0 row(s) in 0.0110 seconds

hbase(main):011:0>
hbase(main):012:0* put 'employees', 'ID4', 'private:salary', '65000'
0 row(s) in 0.0130 seconds
```

## **Output:**

scan 'employees'

```
hbase(main):013:0> scan 'employees'

ROW COLUMN+CELL

ID1 column=private:address, timestamp=1602827208447, value=243 N. Wabash Av.

ID2 column=private:bomephone, timestamp=1602827519481, value=9856765243

ID2 column=private:homephone, timestamp=1602827208258, value=111-222-334

ID2 column=private:sn, timestamp=1602827208258, value=122-333-445

ID3 column=private:ssn, timestamp=1602827208405, value=222-333-445

ID3 column=private:address, timestamp=1602827208405, value=35000

ID4 column=private:salary, timestamp=1602827716045, value=85000

4 row(s) in 0.0360 seconds
```

# 1 new column to the public family

### Statement:

```
put 'employees', 'ID2', 'public:name', 'Bob Riley' put 'employees', 'ID1', 'public:name', 'Ed Scot'
```

```
hbase(main):014:0> put 'employees', 'ID2', 'public:name', 'Bob Riley' 0 row(s) in 0.0100 seconds

hbase(main):015:0> put 'employees', 'ID1', 'public:name', 'Ed Scot' 0 row(s) in 0.0110 seconds
```

# **Output:**

scan 'employees'

# Create a brand new family and add 3 new columns

### Statement:

```
disable 'employees'
alter 'employees', 'exception'
enable 'employees'
```

```
hbase(main):017:0> disable 'employees'
0 row(s) in 2.0570 seconds

hbase(main):018:0>
hbase(main):019:0* alter 'employees', 'exception'
0 row(s) in 0.0350 seconds

hbase(main):020:0>
hbase(main):021:0* enable 'employees'
0 row(s) in 2.0290 seconds
```

#### Statement:

```
put 'employees', 'ID3', 'exception:manager_name', 'Alicia Jones' put 'employees', 'ID1', 'exception:manager_name', 'Maria Lopez'
```

```
hbase(main):022:0> put 'employees', 'ID3', 'exception:manager_name', 'Alicia Jones'
0 row(s) in 0.0110 seconds

hbase(main):023:0> put 'employees', 'ID1', 'exception:manager_name', 'Maria Lopez'
0 row(s) in 0.0060 seconds
```

# Output:

scan 'employees'

# Statement:

```
put 'employees', 'ID5', 'exception:department', 'public' put 'employees', 'ID3', 'exception:department', 'federal'
```

```
hbase(main):025:0> put 'employees', 'ID5', 'exception:department', 'public'
0 row(s) in 0.0150 seconds

hbase(main):026:0>
hbase(main):027:0* put 'employees', 'ID3', 'exception:department', 'federal'
0 row(s) in 0.0070 seconds
```

## **Output:**

scan 'employees'

#### Statement:

```
put 'employees', 'ID2', 'exception:workphone', '6579263146' put 'employees', 'ID4', 'exception:workphone', '8492603124'
```

```
hbase(main):029:0> put 'employees', 'ID2', 'exception:workphone', '6579263146'
0 row(s) in 0.0100 seconds
hbase(main):030:0> put 'employees', 'ID4', 'exception:workphone', '8492603124'
0 row(s) in 0.0120 seconds
```

### **Output:**

scan 'employees'