

# HBASE - SCAN

[http://www.tutorialspoint.com/hbase/hbase\\_scan.htm](http://www.tutorialspoint.com/hbase/hbase_scan.htm)

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## Scanning using HBase Shell

The **scan** command is used to view the data in HTable. Using the scan command, you can get the table data. Its syntax is as follows:

```
scan '<table name>'
```

## Example

The following example shows how to read data from a table using the scan command. Here we are reading the **emp** table.

```
hbase(main):010:0> scan 'emp'

ROW                                COLUMN &plus; CELL

1 column = personal data:city, timestamp = 1417521848375, value = hyderabad
1 column = personal data:name, timestamp = 1417521785385, value = ramu
1 column = professional data:designation, timestamp = 1417585277, value = manager
1 column = professional data:salary, timestamp = 1417521903862, value = 50000

1 row(s) in 0.0370 seconds
```

## Scanning Using Java API

The complete program to scan the entire table data using java API is as follows.

```
import java.io.IOException;

import org.apache.hadoop.conf.Configuration;

import org.apache.hadoop.hbase.HBaseConfiguration;
import org.apache.hadoop.hbase.util.Bytes;

import org.apache.hadoop.hbase.client.HTable;
import org.apache.hadoop.hbase.client.Result;
import org.apache.hadoop.hbase.client.ResultScanner;
import org.apache.hadoop.hbase.client.Scan;

public class ScanTable{

    public static void main(String args[]) throws IOException{

        // Instantiating Configuration class
        Configuration config = HBaseConfiguration.create();

        // Instantiating HTable class
        HTable table = new HTable(config, "emp");

        // Instantiating the Scan class
        Scan scan = new Scan();

        // Scanning the required columns
        scan.addColumn(Bytes.toBytes("personal"), Bytes.toBytes("name"));
        scan.addColumn(Bytes.toBytes("personal"), Bytes.toBytes("city"));

        // Getting the scan result
```

```
ResultScanner scanner = table.getScanner(scan);

// Reading values from scan result
for (Result result = scanner.next(); result != null; result = scanner.next())

System.out.println("Found row : " + result);
//closing the scanner
scanner.close();
}
}
```

Compile and execute the above program as shown below.

```
$javac ScanTable.java
$java ScanTable
```

The following should be the output:

```
Found row :
keyvalues={row1/personal:city/1418275612888/Put/vlen=5/mvcc=0,
row1/personal:name/1418035791555/Put/vlen=4/mvcc=0}
```