

HBASE - ENABLING A TABLE

http://www.tutorialspoint.com/hbase/hbase_enabling_table.htm

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Enabling a Table using HBase Shell

Syntax to enable a table:

```
enable 'emp'
```

Example

Given below is an example to enable a table.

```
hbase(main):005:0> enable 'emp'  
0 row(s) in 0.4580 seconds
```

Verification

After enabling the table, scan it. If you can see the schema, your table is successfully enabled.

```
hbase(main):006:0> scan 'emp'  
  
    ROW                                COLUMN &plus; CELL  
1 column = personal data:city, timestamp = 1417516501, value = hyderabad  
1 column = personal data:name, timestamp = 1417525058, value = ramu  
1 column = professional data:designation, timestamp = 1417532601, value = manager  
1 column = professional data:salary, timestamp = 1417524244109, value = 50000  
2 column = personal data:city, timestamp = 1417524574905, value = chennai  
2 column = personal data:name, timestamp = 1417524556125, value = ravi  
2 column = professional data:designation, timestamp = 14175292204, value = sr:engg  
2 column = professional data:salary, timestamp = 1417524604221, value = 30000  
3 column = personal data:city, timestamp = 1417524681780, value = delhi  
3 column = personal data:name, timestamp = 1417524672067, value = rajesh  
3 column = professional data:designation, timestamp = 14175246987, value = jr:engg  
3 column = professional data:salary, timestamp = 1417524702514, value = 25000  
3 row(s) in 0.0400 seconds
```

is_enabled

This command is used to find whether a table is enabled. Its syntax is as follows:

```
hbase> is_enabled 'table name'
```

The following code verifies whether the table named **emp** is enabled. If it is enabled, it will return true and if not, it will return false.

```
hbase(main):031:0> is_enabled 'emp'  
true  
0 row(s) in 0.0440 seconds
```

Enable a Table Using Java API

To verify whether a table is enabled, **isTableEnabled** method is used; and to enable a table, **enableTable** method is used. These methods belong to **HBaseAdmin** class. Follow the steps given below to enable a table.

Step1

Instantiate **HBaseAdmin** class as shown below.

```
// Creating configuration object
Configuration conf = HBaseConfiguration.create();

// Creating HBaseAdmin object
HBaseAdmin admin = new HBaseAdmin(conf);
```

Step 2

Verify whether the table is enabled using **isTableEnabled** method as shown below.

```
Boolean bool = admin.isTableEnabled("emp");
```

Step 3

If the table is not disabled, disable it as shown below.

```
if(!bool){
    admin.enableTable("emp");
    System.out.println("Table enabled");
}
```

Given below is the complete program to verify whether the table is enabled and if it is not, then how to enable it.

```
import java.io.IOException;

import org.apache.hadoop.conf.Configuration;

import org.apache.hadoop.hbase.HBaseConfiguration;
import org.apache.hadoop.hbase.MasterNotRunningException;
import org.apache.hadoop.hbase.client.HBaseAdmin;

public class EnableTable{

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

        // Instantiating configuration class
        Configuration conf = HBaseConfiguration.create();

        // Instantiating HBaseAdmin class
        HBaseAdmin admin = new HBaseAdmin(conf);

        // Verifying whether the table is disabled
        Boolean bool = admin.isTableEnabled("emp");
        System.out.println(bool);

        // Disabling the table using HBaseAdmin object
        if(!bool){
            admin.enableTable("emp");
            System.out.println("Table Enabled");
        }
    }
}
```

Compile and execute the above program as shown below.

```
$javac EnableTable.java  
$java EnableTable
```

The following should be the output:

```
false  
Table Enabled
```

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