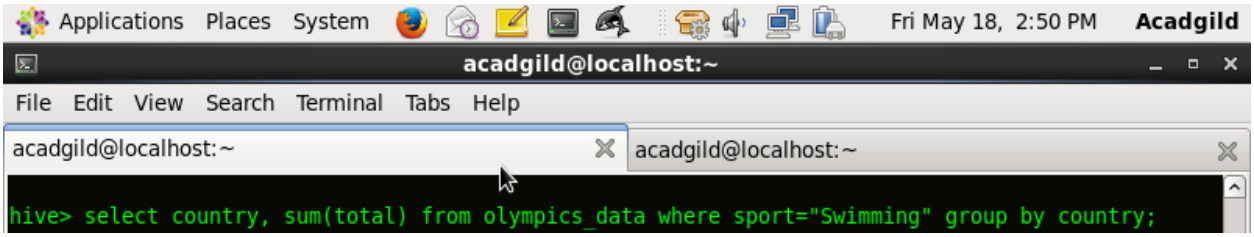
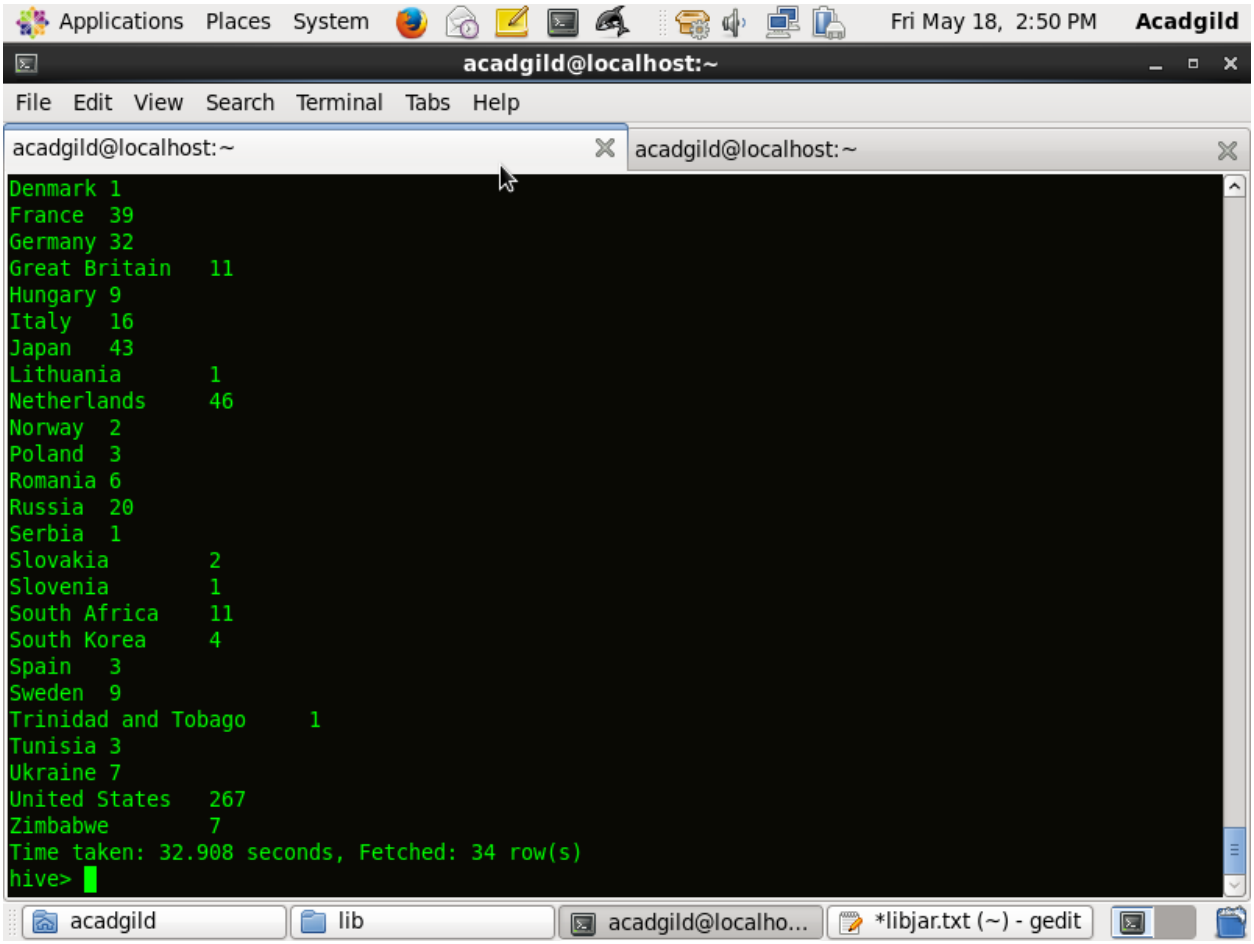
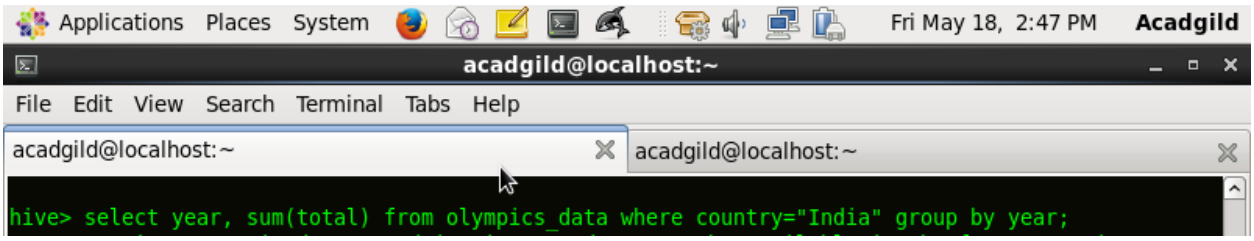
To find the number of medals won by each country in swimming, we will use group by country since the results are grouped by country.
Since we want only those records whose sport is swimming the where key word will help in filtering those records. Lastly by using the sum() function for total field, we will get medals won by each country in swimming



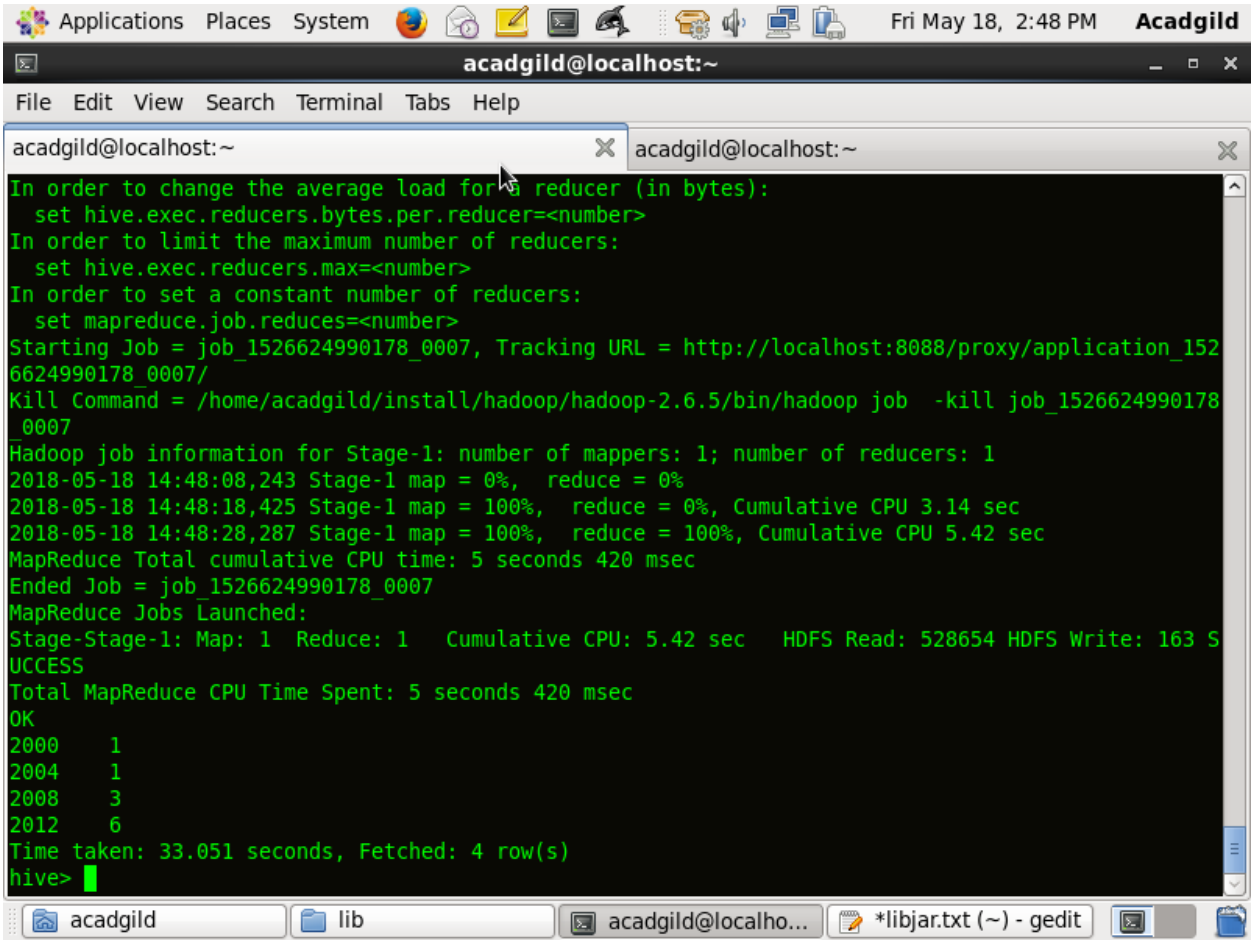
Output:



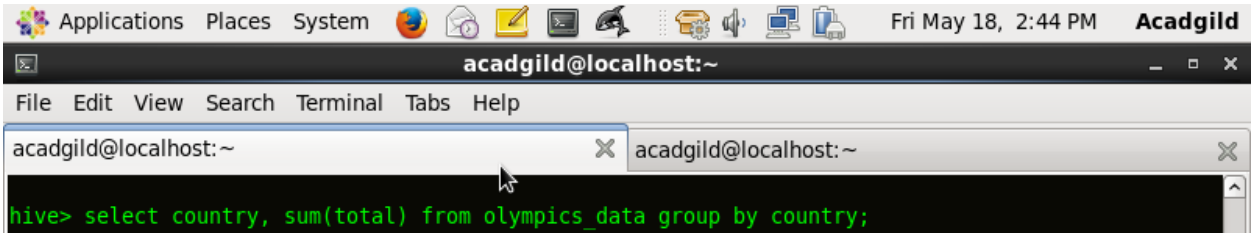
To find the number of medals India won year wise we will provide the where condition for country to filter records only where country is equal to India and we will group the filtered output according to the year since we want year wise output.



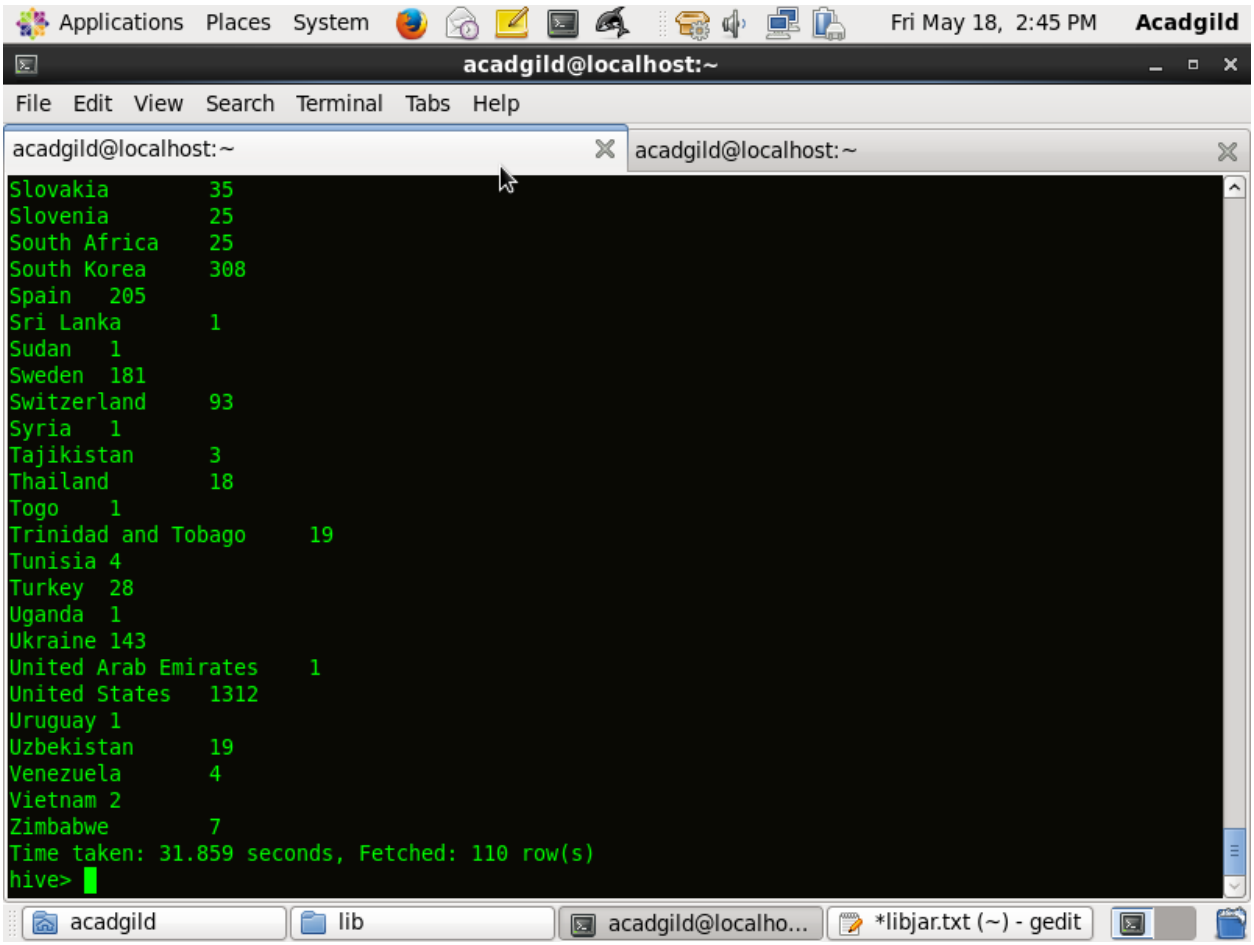
Output:



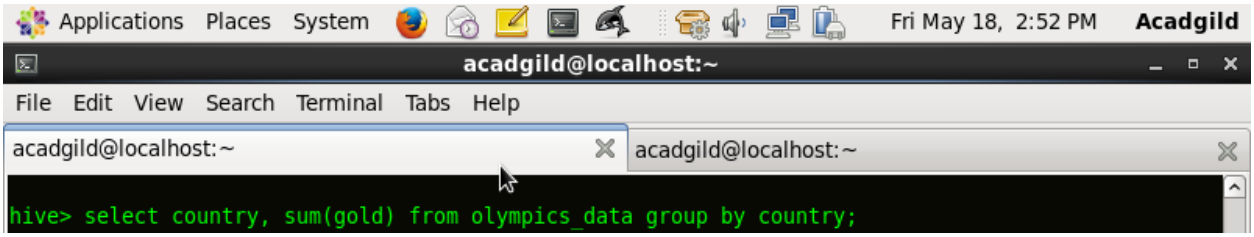
To find the total number of medals won by each country, we will just group the results by country and use the sum() function on total field.



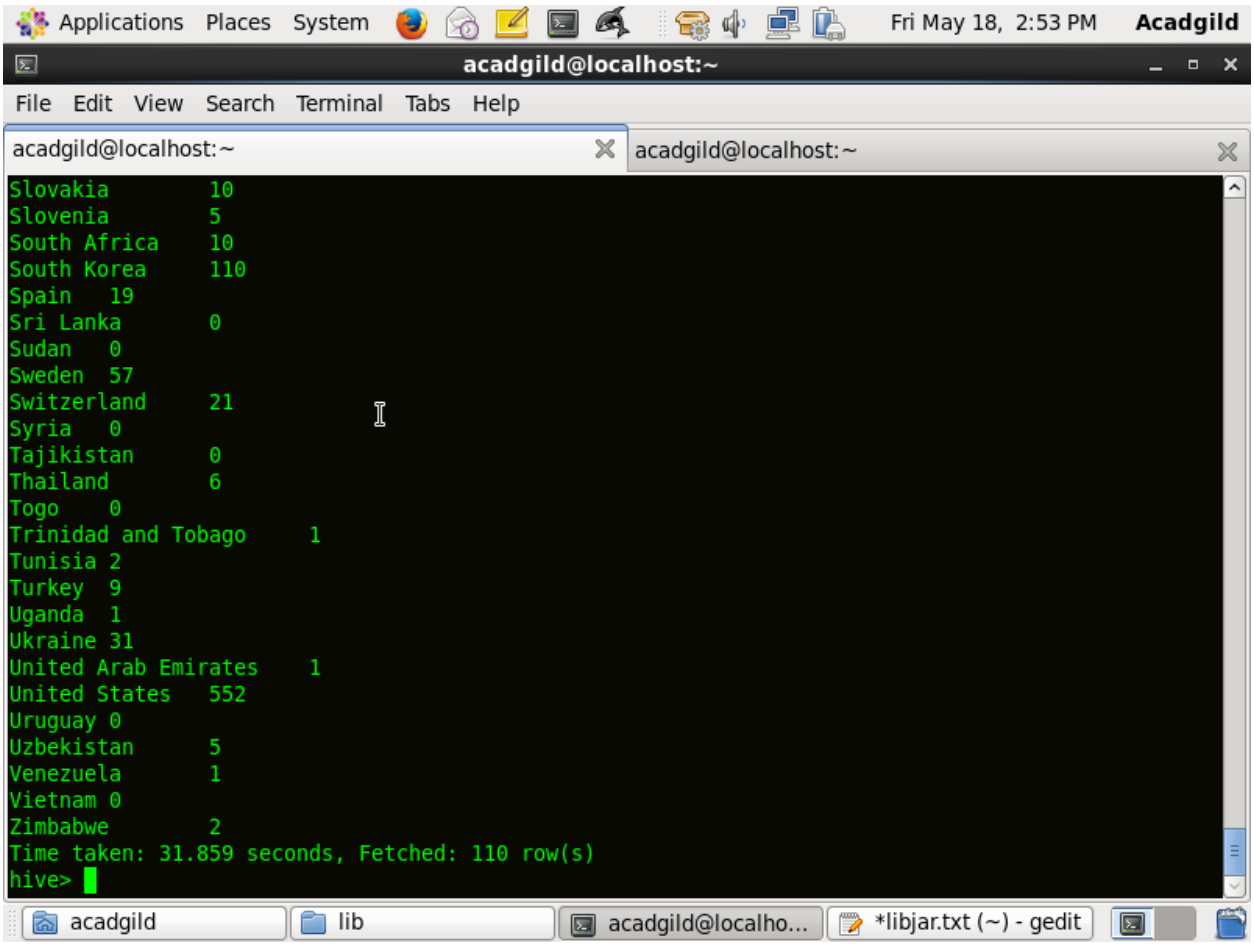
Output:



To find the total number of gold medals each country won, we will apply the sum function on gold field and group it by country field



Output:



Code for HIVE Udf:

The evaluate function will accept two arguments, the first argument is the separator of string data type and the second argument accepts array of type Arraylist.

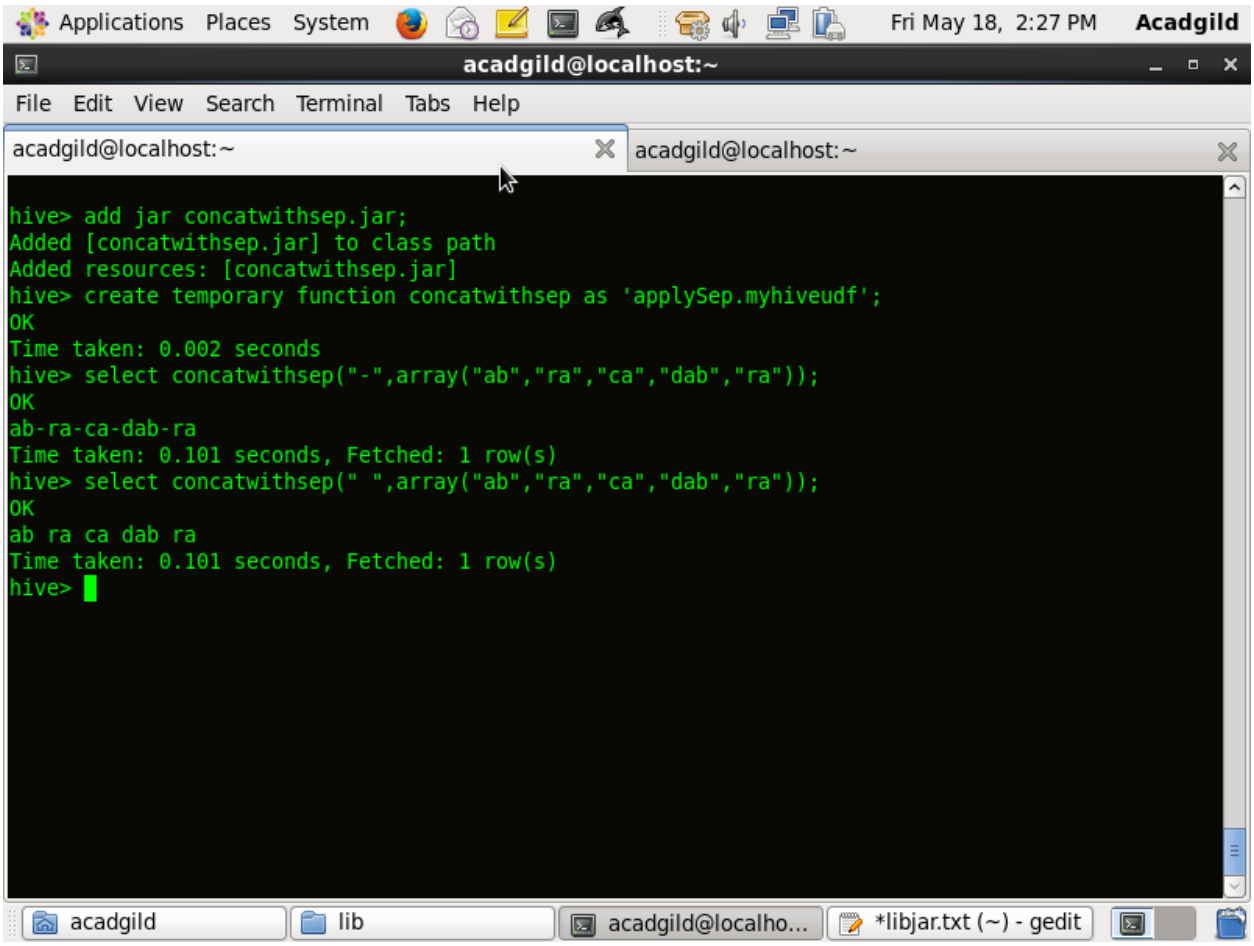
myhiveudf.java

```
1  package applySep;
2  import org.apache.hadoop.hive.ql.exec.UDF;
3  import java.util.ArrayList;
4  import org.apache.hadoop.hive.ql.exec.Description;
5
6  //import org.apache.hadoop.io.Text;
7  @Description(
8          name="concat_ws",
9          value="returns single string of given array with given separator",
10         extended="select concat_ws(sep, array)"
11         )
12 public class myhiveudf extends UDF{
13     public String evaluate(final String sep, ArrayList<String> givenarray) {
14         if(!givenarray.isEmpty()) {
15         String s1=givenarray.get(0);
16         String temp;
17         for(int i = 1;i<givenarray.size();i++) {
18             temp=sep.concat(givenarray.get(i));
19             s1=s1.concat(temp);
20         }
21
22         return s1;
23         }
24         else {
25             return null;
26         }
27     }
28 }
29
```

To use your custom hive UDF, add the jar to the shell by command:
add jar <jar-name>;

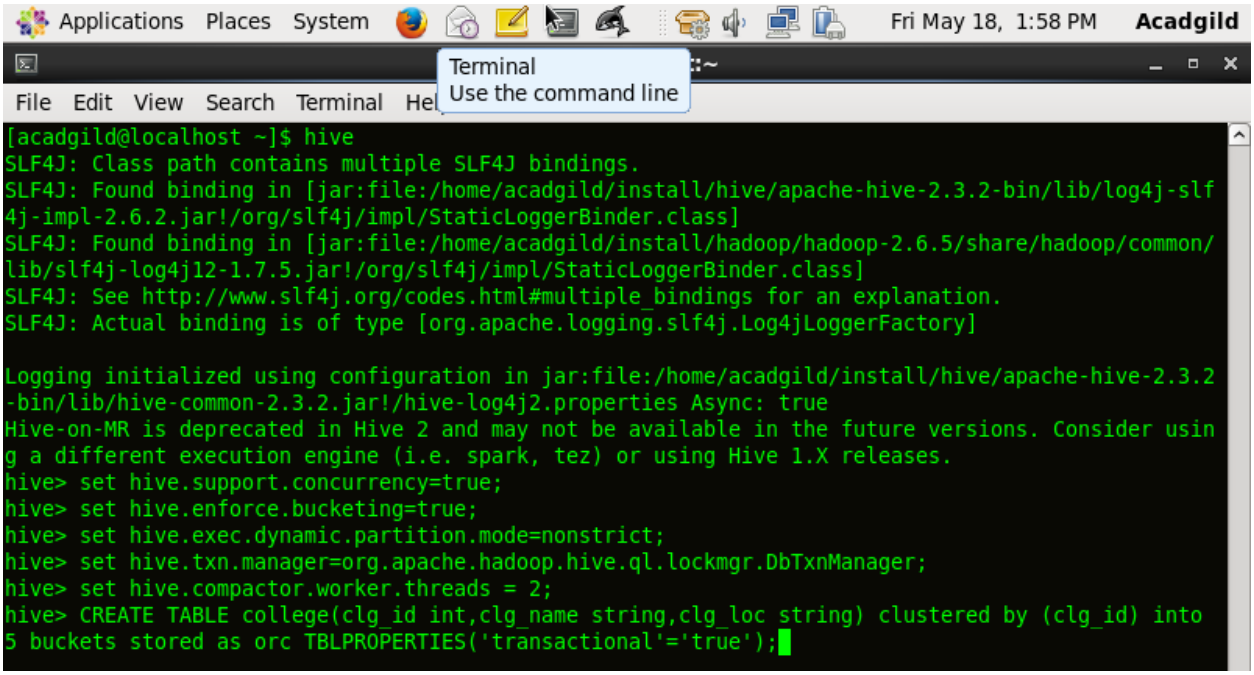
Then create your temporary function by command:
create temporary function <your-udf-function-name> as '<package-name>.<class-name>';

When I enter the command:
select concatwithsep("-",array("ab","ra","ca","dab","ra"));
One will get output as ab-ra-ca-dab-ra

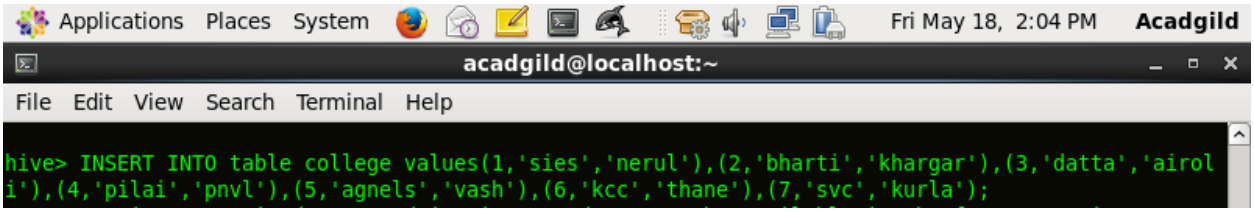


Output of Transactions in hive:

Setting below properties in hive shell and creating table

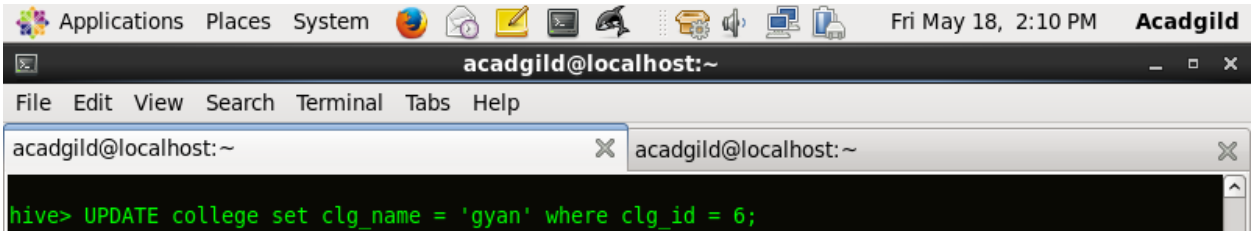


Inserting values into table college

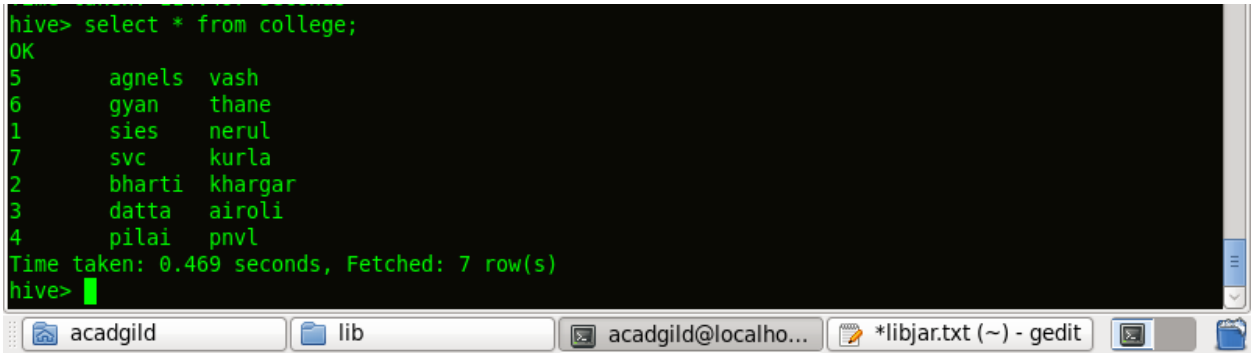


Viewing the contents of table

Updating a value in table



'kcc' has changed to 'gyan'



Deleting a record

The record whose id=5 has been deleted