BigData Assignment 3.5

Write a hive UDF that implements functionality of string concat_ws(string SEP, array<string>).This UDF will accept two arguments, one string and one array of string.It will return a single string where all the elements of the array are separated by the SEP.

Solution -

StringUDF.java

```
package hive;

import java.util.ArrayList;
import org.apache.hadoop.hive.ql.exec.UDF;

public class StringUDF extends UDF{
	public String evaluate(String sep,ArrayList<String> arr) {
		String res = "";
		if(sep==null || arr==null) {
//To check input is null or not
			return null;
		}
		for(int i=0;i<arr.size()-1;i++) {
			res = res+arr.get(i)+sep;
//To add separator
		}
		res = res+arr.get(arr.size()-1);
		return res;

	}
}
```

- First started the all the required daemons
  start-all.sh

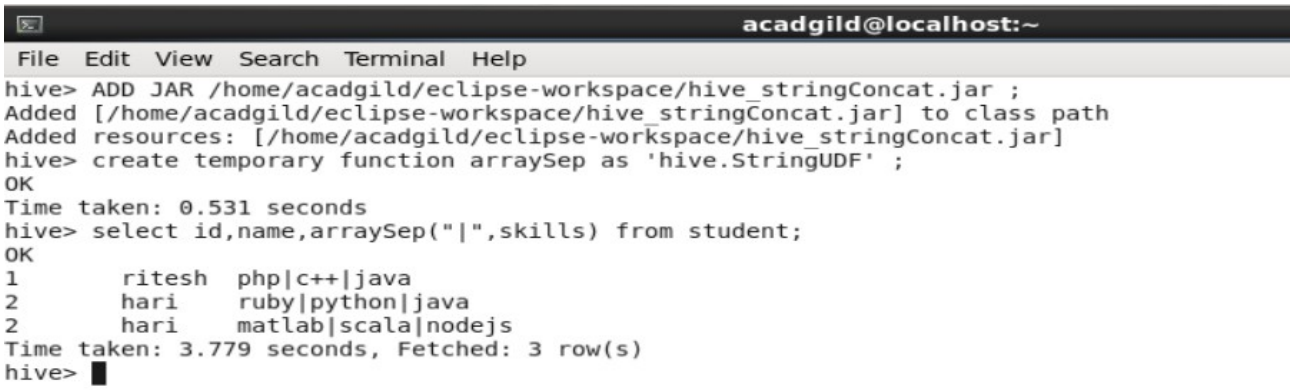
- Started the hive shell
  hive

- Checked the database and the content of the table
  use default;
  select * from student;

- Added the hive jar for string separation
  ADD jar /home/acadgild/eclipse/hive_stringConcat.jar;

- Created a hive function t o use hive custom UDF
  create temporary function arraySep as 'hive.StringUDF';

- Separated the skills array from the table using separator '|' and using hive custom UDF
  select id,name,arraySep(“|”,skills) from student;



Output -

In the above screenshot , it is evident that we using hive custom UDF function , we added separator '|' in the skills array using that function.