Project 2.1- State-Wise Development Analysis In India

- Developing system to handle the incoming log feed and store the information in Hadoop Cluster (Flume)
- Analyze the data and understand the progress
- Store the results in Hbase/RDBMS
- 1. Find out the districts who achieved 100 percent objective in BPL cards .Export the results to mysql using sqoop.
- 2. Write a Pig UDF to filter the districts which have reached 80% of objectives of BPL cards. Export the results to MySQL using Sqoop.

Dataset -

https://drive.google.com/file/d/0Bxr27gVaXO5sUjd2RWFQS3hQ QUE/view -

Solution -

1st Phase

• First Checked the folders in hdfs , then created a folder 'flume_import' in it.

hadoop fs -ls / hadoop fs -mkdir /flume_import

• Then using flume we transferred the data from the local file system that is spool directory to HDFS.

flume-ng agent -n agent1 -g /home/aadgild/RITESH/STATE/filecopy.conf



```
File Edit View Search Terminal Help

SLF41: Found binding in [jar:file:/home/acadgild/install/hive/apache-hive-2.3.2-bin/lib/log4j-slf4j-impl-2.6.2.jar!/org/slf4j/impl/StaticLoggerBinder.class]

SLF41: Sea http://www.slf4j.org/codes.html/multiple_bindings for an explanation.

18/86/21 81:22:49 INFO node.PollingPropertiesFileConfigurationProvider: Configuration provider starting

18/86/21 81:22:49 INFO node.PollingPropertiesFileConfigurationProvider: Reloading configuration file:/home/acadgild/RITESH/ST ATE/filecopy.comf

ATE/filecopy.comf
```

This flume process goes on continuously to fetch data from local file system to HDFS.

The flume configuration file **filecopy.conf**

```
agent1.sources = mysrc
agent1.sinks = hdfsdest
agent1.channels = mychannel
agent1.sources.mysrc.type = exec
agent1.sources.mysrc.command = hadoop dfs -put
/home/acadgild/RITESH/STATE/spool/StatewiseDistrictwisePhysicalP
rogress.xml /flume_import
```

agent1.sinks.hdfsdest.type = hdfs
agent1.sinks.hdfsdest.hdfs.path = hdfs://localhost:9000/flume_import

```
agent1.channels.mychannel.type = memory
agent1.sources.mysrc.channels = mychannel
agent1.sinks.hdfsdest.channel = mychannel
```

Then the flume import folder is checked whether data got imported.
 hadoop fs -ls /flume_import

```
File Edit View Search Terminal Help

[acadgild@localhost STATE]$ hadoop fs -ls /flume_import

18/06/21 01:25:02 WARN util.NativeCodeLoader: Unable to load native-hadoopmlibrary for your platform... using builtin-java cl
asses where applicable
Found 1 items

-rw-r--r-- 1 acadgild supergroup

717414 2018-06-21 01:22 /flume_import/StatewiseDistrictwisePhysicalProgress.xml
[acadgild@localhost STATE]$
```

 Startedthe pig shell pig -x local

```
File Edit View Search Terminal Help

You have new mail in /var/spool/mail/acadgild [acadgild@localhost STATE]$ pig -x local |
SLF4J: Class path contains multiple SLF4D bindings.
SLF4J: Class path contains multiple SLF4D bindings.
SLF4J: Found binding in [jar:file:/home/acadgild/install/hadoop/hadoop-2.6.5/share/hadoop/common/lib/slf4j-log4jl2-1.7.5.jar!
SLF4J: Found binding in [jar:file:/home/acadgild/install/hbase/hbase-1.2.6/lib/slf4j-log4jl2-1.7.5.jar!/org/slf4j/impl/Static loggerBinder.class]
SLF4J: Found binding in [jar:file:/home/acadgild/install/hbase/hbase-1.2.6/lib/slf4j-log4jl2-1.7.5.jar!/org/slf4j/impl/Static loggerBinder.class]
SLF4J: Found binding in [jar:file:/home/acadgild/install/hbase/hbase-1.2.6/lib/slf4j-log4jl2-1.7.5.jar!/org/slf4j/impl/Static loggerBinder.class]
SLF4J: See http://www.slf4j.org/codes.html/wmultiple_bindings for an explanation.
SLF4J: See http://www.slf4j.org/codes.html/wmultiple_bindings for an explanation.
SLF4J: Actual binding is of type [org.slf4j.impl.log4jl.oggerFactory]
18/06/21 01:41:39 INF0 pig.ExectypeProvider: Trying Exectype: LOCAL
18/06/21 01:41:39 INF0 pig.ExectypeProvider: Picked LOCAL as the Exectype
2018-06-21 01:41:39,693 [main] INF0 org.apache.pig.Main - Apache Pig version 0.16.0 (r1746530) compiled Jun 01 2016, 23:10:4
2018-06-21 01:41:39,693 [main] INF0 org.apache.pig.main - Logging error messages to: /home/acadgild/RITESH/STATE/pig_1529525
2018-06-21 01:41:40,084 [main] INF0 org.apache.pig.impl.lutil.Utils - Default bootup file /home/acadgild/.pigbootup not found local pid: 10.40,084 [main] INF0 org.apache.hadoop.conf.Configuration.deprecation - mapred.job.tracker is deprecated. Instead, use dfs.lutil.00,087 [main] INF0 org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated. Instead, use dfs.bytes-per-checksum org.apache.hadoop.conf.Configuration.deprecation - io.bytes.per.checksum org.apache.pig.backend.hadoop.executionengine.HExecutionEngine - Connecting to hadoop file system at: file:///
2018-06-21 01:41:40,310 [main] INF0 or
```

1.

 Registering the **piggybank** jar that contains the executables for various pig functions. to parse XML.

REGISTER /home/acadgild/install/pig/pig-0.16.0/lib/piggybank.jar;

```
grunt> REGISTER /home/acadgild/install/pig/pig-0.16.0/lib/piggybank.jar; 2018-06-21 01:42:25,552 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - io.bytes.per.checksum is deprecated. Instead, use dfs.bytes-per-checksum 2018-06-21 01:42:25,564 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated. Instead, use fs.defaultFS grunt>
```

Defining the XML Parse function as Xpath

DEFINE XPath org.apache.pig.piggybank.evaluation.xml.XPath;

```
grunt> DEFINE XPath org.apache.pig.piggybank.evaluation.xml.XPath;
grunt> ■
```

• Loading the data in from HDFS and then using the XML Loader function to load the data into the relation with every starting tag 'row' as one line of type: chararray with the name **x**.

data = load
'hdfs://localhost:8020/flume_import/StatewiseDistrictwisePhysic
alProgress.xml' using
org.apache.pig.piggybank.storage.XMLLoader('row') as
(x:chararray);

grunt> data = load 'hdfs://localhost:8020/flume_import/StatewiseDistrictwisePhysicalProgress.xml'
>> using org.apache.pig.piggybank.storage.XMLLoader('row') as (x:chararray);

Generating the rows in relation by using the XML Parser XPath.
 Every required tag for the anlysis under the main tag row will be separated by the tag name and given a pseudo name in the relation.

req_data = foreach data generate XPath(x,'row/State_Name') as state, XPath(x,'row/District_Name') as DistrictName, XPath(x,'row/Project_Objectives_IHHL_BPL') as POIHHLBPL, XPath(x,'row/Project_Performance-IHHL_BPL') as PPIHHLBPL;

grunt> req_data = foreach data generate XPath(x,'/row/State_Name') as state, XPath(x,'/row/District_Name') as DistrictName, X Path(x,'/row/Project_Objectives_IHHL_BPL') as POIHHLBPL, XPath(x,'/row/Project_Performance-IHHL_BPL') as PPIHHLBPL;

required fields are filtered if null is present.
 filter_null = filter req_data by (PPIHHLBPL is not null) AND (POIHHLBPL is not null);

grunt> filter_null = filter req_data by (PPIHHLBPL is not null) AND (POIHHLBPL is not null);

• Filter the data where performance objective is equal to performance achiedved.

centPercentObjective = filter filter_null
by((int)PPIHHLBPL==(int)POIHHLBPL);

```
grunt> centPercentObjective = filter filter_null by ((int)PPIHHLBPL==(int)POIHHLBPL);
```

• List is generated containg state, districts, performance objective and performance achieved of BPL cards.

districts = foreach centPercentObjective generate
state,DistrictName,POIHHLBPL,PPIHHLBPL;

```
grunt> districts = foreach centPercentObjective generate state,DistrictName,POIHHLBPL,PPIHHLBPL;
```

Stored the final results into HDFS
 store districts into
 'hdfs://localhost:8020/pig_output/districtwiseachieved' using
 PigStorage(',');

grunt> store districts into 'hdfs://localhost:8020/pig_output/districtwiseachieved' using PigStorage(',');

E				ac	adgild@	ocalhost	:~/RITESH/	STATE				-
File Edit View	Search	Terminal	Help									
acadgild@local	host STA	TE]\$ had	doop fs -	ls /pig	output/	district	viseachiev	ed				
8/06/21 10:18:		util.Nat	tiveCodeL	oader:	Unable t	o load na	ative-hado	op library	for your	platform	using b	uiltin-java
sses where app	licable											
ound 2 items												
	acadgild									eved/_SUCCES		
	acadgild									eved/part-m-	00000	
acadgild@local										21.00		1000101 101
8/06/21 10:19:		util.Nat	tiveCodeL	oader:	Unable t	o load na	ative-hado	op library	for your	platform	using b	uiltin-java
sses where app												
ndhra Pradesh			225519	225519								
runachal Prade		TIRAP	5780	5780								
ssam HAILAKA		49837	49837									
ihar MADHUBA		67482	67482									
oa NORTH G		15000	15000									
ujarat AHMEDAB		80192	80192									
ujarat DANGS	27900	27900										
ujarat NAVSARI ujarat PORBAND		75015 17024	17024									
ujarat PURBAND ujarat SURAT	158797	158797	1/024									
laryana FARIDAB		22254	22254					I				
arvana HISAR	46463	46463	22234									
laryana JHAJJAR		22014										
laryana MAHENDR		17500	17500									
aryana PANCHKU		8760	8760									
aryana PANIPAT		28000	0700									
aryana ROHTAK		22171										
aryana SIRSA	35400	35400										
imachal Prades		HAMIRPU	JR	11593	11593							
imachal Prades	h	KINNAUF	R 1560	1560								
imachal Prades	h	KULLU	9989	9989								
imachal Prades	h	LAHAUL	& SPITI	2413	2413							
imachal Prades	h	SHIMLA	23874	23874								
imachal Prades	h	SOLAN	10858	10858								
imachal Prades	h	UNA	8360	8360								
harkhand	DEOGHAR	75153	75153									
harkhand	LOHARDA	GA	22626	22626								
arnataka	HASSAN		64134									
Karnataka MANGALORE(DAKSHINA KANNADA)			59478	59478								
Carnataka	UDUPI	52348	52348									

- Checked the content of the pig output in hdfs.
 hadoop fs -ls /pig_output/districtwiseachieved
- Created a database project and a table 'districtCentPercent'.
 create database project;

use project; create table districtCentPercent(state varchar(25), district_name varchar(30), POIHHLBPL int , PPIHHLBPL int);



Using sqoop we exported the data from HDFS to mysql.
 sqoop export -connect jdbc:mysql://localhost/project -username 'root' -password <u>'Root@123</u>' -table 'districtCentPercent' - export-dir '/pig_output/districtwiseachieved/part-m-00000' - input-fields-terminated-by ',' -m 1 -columns state,district,name,POIHHLBPL,PPIHHLBPL



```
File Edit View Search Terminal Help

File System Counters

File: Number of bytes read=0
File: Number of bytes written=127623
File: Number of large read operations=0
File: Number of large read operations=0
File: Number of bytes written=0
HDFS: Number of bytes read=0
HDFS: Number of bytes read=0
HDFS: Number of bytes read=2480
HDFS: Number of bytes read=2480
HDFS: Number of large read operations=0
HDFS: Number of write operations=0
Job Counters

Launched map tasks=1
Data-local map tasks=1
Data-local map tasks=1
Total time spent by all map tasks (ms)=4938
Total vcore-milliseconds taken by all map tasks (ms)=938
Total vcore-milliseconds taken by all map tasks=938
Total vcore-milliseconds taken by all map tasks=938
Total vcore-milliseconds taken by all map tasks=956512
Map-Reduce Framework
Map input records=70
Map output records=70
Input split bytes=147
Spilled Records=0
Failed Shuffles=0
File Input Format Counters
Bytes Read=0
File Input Format Counters
Bytes Read=0
File Output Format Counters
File
```

We checked the content of the table in mysql.
 select * from districtCentPercent;

acadgild@localhost:~/RITESH/STATE File Edit View Search Terminal Help mysal> select * from districtCentPercent; | POIHHLBPL | PPIHHLBPL | I state | district name | NIZAMABAD | Andhra Pradesh 225519 | 225519 5780 5780 Arunachal Pradesh | TIRAP | HAILAKANDI 49837 | 49837 Assam Bihar MADHUBANI 67482 67482 | NORTH GOA 15000 15000 Goa AHMEDABAD 80192 80192 Guiarat 27900 DANGS 27900 | Gujarat NAVSARI 75015 Guiarat 75015 17024 PORBANDAR 17024 Guiarat SURAT 158797 158797 Gujarat | FARIDABAD 22254 | 22254 Haryana Harvana HISAR 46463 46463 | JHAJJAR 22014 22014 Harvana MAHENDRAGARH 17500 Haryana 17500 | PANCHKULA 8760 | 8760 Haryana 28000 PANIPAT 28000 Haryana ROHTAK 22171 | 22171 Haryana 35400 | SIRSA Haryana 35400 11593 | 11593 Himachal Pradesh | HAMIRPUR Himachal Pradesh | KINNAUR Himachal Pradesh | KULLU 1560 1560 9989 9989 Himachal Pradesh | LAHAUL & SPITI 2413 2413 Himachal Pradesh | SHIMLA 23874 | 23874 | SOLAN | UNA Himachal Pradesh 10858 10858 Himachal Pradesh 8360 I 8360 75153 | DEOGHAR 75153 Jharkhand LOHARDAGA 22626 | 22626 Jharkhand Karnataka HASSAN 64134 64134 | MANGALORE(DAKSHINA KANNADA) Karnataka 59478 59478 I 52348 Karnataka UDUPI 52348 | ALAPPUZHA 114359 | 114359 Kerala Kerala KOLLAM 95130 95130 28118 Kerala KOTTAYAM 28118 acadgild@localhost:~/RITESH/STATE File Edit View Search Terminal Help 53799 | PATHANAMTHITTA Kerala 1 53799 Kerala WAYANAD 50655 I 50655 Maharashtra GADCHIROLI 75900 75900 | SINDHUDURG | WEST GARO HILLS 43874 | 43874 44385 Maharashtra Meghalaya 44385 | CHAMPHAI 11077 Mizoram 11077 | LAWNGTLAI | HANUMANGARH 16544 Mizoram 16544 Rajasthan 31621 31621 Tamil Nadu | ERODE 165306 165306 KARUR Tamil Nadu 105280 105280 NAMAKKAL 117538 Tamil Nadu 117538 | 77747 | | TIRUCHIRAPPALLI Tamil Nadu 77747 Tamil Nadu TIRUVANNAMALAI 209116 209116 DHALAI 53507 I 53507 Tripura | SOUTH TRIPURA Tripura 139456 139456 WEST TRIPURA 183405 | Tripura 183405 132725 Uttar Pradesh AMBEDKAR NAGAR 132725 İ Uttar Pradesh BALRAMPUR 65273 | 65273 Uttar Pradesh 110000 | BAREILLY 110000 Uttar Pradesh BIJNOR 110403 | 110403 107603 | 94097 | 107603 Uttar Pradesh BUDAUN Uttar Pradesh ETAWAH 94097 Uttar Pradesh FARRUKHABAD 120471 120471 19843 | FIROZABAD Uttar Pradesh 19843 Uttar Pradesh GHAZIABAD 10810 | 10810 Uttar Pradesh HARDOI 199989 199989 | JYOTIBA PHULE NAGAR 48008 | Uttar Pradesh 48008 113188 Uttar Pradesh LUCKNOW 113188 | Uttar Pradesh MAHARAJGANJ 145090 145090 | MAHOBA Uttar Pradesh 53117 | 53117 Uttar Pradesh MORADABAD 76018 I 76018 51660 | Uttar Pradesh | MUZAFFARNAGAR 51660 Uttar Pradesh PILIBHIT 95178 95178 Uttar Pradesh SONBHADRA 138370 | 138370 SULTANPUR Uttar Pradesh 168843 168843 70 rows in set (0.00 sec) mysql>

2.

• Registering the **piggybank** jar that contains the executables for various pig functions. to parse XML.

REGISTER

/home/acadgild/install/pig/pig0.16.0/lib/piggybank.jar;

```
grunt> REGISTER /home/acadgild/install/pig/pig-0.16.0/lib/piggybank.jar;
2018-06-21 01:42:25,552 [main] INFO
Instead, use dfs.bytes-per-checksum
2018-06-21 01:42:25,564 [main] INFO
d, use fs.defaultFS
qrunt> 

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```

Defining the XML Parse function as Xpath

DEFINE XPath org.apache.pig.piggybank.evaluation.xml.Xpath;

```
grunt> DEFINE XPath org.apache.pig.piggybank.evaluation.xml.XPath;
grunt> ■
```

• Registering pig UDF jar.

REGISTER '/home/acadgild/RITESH/STATE/Filter80.jar';

```
grunt> REGISTER /home/acadgild/RITESH/STATE/Filter80.jar;
```

Filter80 code:

```
package pigUDF;
import java.io.IOException;
import org.apache.pig.EvalFunc;
import org.apache.pig.data.Tuple;

public class Filter80 extends EvalFunc<Double>{
    public Double exec(Tuple input) throws IOException {
        double performance = (double)input.get(0);
        double objective = (double)input.get(1);

        double percentage = (performance/objective)*100;
        if(percentage>80.0)
```

```
return percentage;
else
return 0.0;
}
```

• Loading the data in from HDFS and then using the XML Loader function to load the data into the relation with every starting tag 'row' as one line of type: chararray with the name **x**.

data = load

'hdfs://localhost:8020/flume_import/StatewiseDistrictwisePhysicalPro gress.xml' using org.apache.pig.piggybank.storage.XMLLoader('row') as (x:chararray);

```
grunt> data = load 'hdfs://localhost:8020/flume_import/StatewiseDistrictwisePhysicalProgress.xml'
>> using org.apache.pig.piggybank.storage.XMLLoader('row') as (x:chararray);
```

Generating the rows in relation by using the XML Parser XPath.
 Every required tag for the anlysis under the main tag row will be separated by the tag name and given a pseudo name in the relation.

req_data = foreach data generate XPath(x,'row/State_Name') as state, XPath(x,'row/District_Name') as DistrictName, XPath(x,'row/Project_Objectives_IHHL_BPL') as POIHHLBPL, XPath(x,'row/Project_Performance-IHHL_BPL') as PPIHHLBPL;

```
grunt> req_data = foreach data generate XPath(x,'/row/State_Name') as state, XPath(x,'/row/District_Name') as DistrictName, X
Path(x,'/row/Project_Objectives_IHHL_BPL') as POIHHLBPL, XPath(x,'/row/Project_Performance-IHHL_BPL') as PPIHHLBPL;
```

required fields are filtered if null is present.
 filter_null = filter req_data by (PPIHHLBPL is not null) AND (POIHHLBPL is not null);

```
grunt> filter_null = filter req_data by (PPIHHLBPL is not null) AND (POIHHLBPL is not null);
```

 List is generated where it contains sate, district name, percentage completion of BPL cards.

percentObjective = foreach filter_null generate state,DistrictName,ROUND_TO(pigUDF.Filter80((double)PPIH HLBPL,(double)POIHHLBPL),2) as BPL_Percent;

frunt> percentObjective = foreach filter_null generate state,DistrictName,ROUND_TO(pigUDF.Filter80((double)PPIHHLBPL,(double))POIHHLBPL),2) as BPL_Percent;

Filtered the data where BPL cards completion is greater than 80

percent80 = FILTER percentObjective BY BPL_Percent>=80.00;

grunt> percent80 = FILTER percent0bjective BY BPL_Percent>=80.00;

Store the data into hdfs

store percent80 into

'hdfs://localhost:8020/pig_output/percent80achieved' using PigStorage(',');

```
File Edit View Search Terminal Help

grunt> store percent80 into 'hdfs://localhost:8020/pig_output/percent80achieved' using Pigstorage(',');
2018-06-21 16:55:22,793 [main] INFO
Instead, use dfs.bytes-per-checksum
2018-06-21 16:55:22,919 [main] INFO
deprecated. Instead, use mapreduce.output.textoutputformat.separator
deprecated. Instead, use mapreduce.output.textoutputformat.separator
2018-06-21 16:55:22,912 [main] INFO
2018-06-21 16:55:22,912 [main] INFO
deprecated. Instead, use mapreduce.output.textoutputformat.separator
is quaranteed. Instead, use mapreduce.output.textou
```



Created the table 'Percent80_district'
 create table districtCentPercent(state varchar(25), district_name
 varchar(30),BPL_percent double);

```
File Edit View Search Terminal Help
mysql> create table Percent80_district( state varchar(25), district_name varchar(30), BPL_Percent double);
Query OK, 0 rows affected (0.24 sec)
```

• Checked the wheteher the pig output was stored or not in HDFS.

hadoop fs -ls /pig_output/percent80achieved hadoop fs -cat /pig_output/percent80achieved/part-m-00000

Using sqoop we exported the data from HDFS to mysql.
 sqoop export -connect jdbc:mysql://localhost/project -username 'root' -password 'Root@123' -table 'Percent80_district' -export-dir '/pig_output/percent80achieved/part-m-00000' -input-fields-terminated-by ',' -m 1 -columns state,district,name,BPL_Percent

 Checked the content of the table in mysql select * from Percent80_district;

E	ag	adgild@localhost:~
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mysql> select * from		
+	+	+
state	district_name	BPL_Percent
+	+	++
Andhra Pradesh	ANANTAPUR	100.89
Andhra Pradesh	CHITTOOR	90.99
_™ Andhra Pradesh	CUDDAPAH	95.28
Andhra Pradesh	EAST GODAVARI	93.8
Andhra Pradesh	KARIMNAGAR	101.14
Andhra Pradesh	KHAMMAM	103.46
Andhra Pradesh	KRISHNA	90.66
Andhra Pradesh	KURNOOL	84.39
Andhra Pradesh	MEDAK	99.63
Andhra Pradesh	NALGONDA	104.54
Andhra Pradesh	NIZAMABAD	100
Andhra Pradesh	RANGAREDDI	82.05
Andhra Pradesh	WARANGAL	108.92
Andhra Pradesh	WEST GODAVARI	92.8
Arunachal Pradesh	DIBANG VALLEY	100.28
Arunachal Pradesh	LOHIT	95.57
Arunachal Pradesh	TIRAP	100
Assam	BAGSHA	85.77
Assam	CACHAR	84.28
Assam	DIBRUGARH	90.09
Assam	GOALPARA	85.67
Assam	GOLAGHAT	97.8
Assam	HAILAKANDI	100
Assam	JORHAT	80.99
Assam	KAMRUP	98.76
Assam	KARIMGANJ	95.96
Assam	KOKRAJHAR	89.46
Assam	LAKHIMPUR	83.06
Assam	MARIGAON	92.96
Assam	NAGAON	94
Assam	SIBSAGAR	85.39
Assam	SONITPUR	84.34
Assam	TINSUKIA	85.51
Bihar	BEGUSARAI	87.28
Bihar	MADHUBANI	100

E	acadgild@	olocalhost:~/RITES
File Edit View	Search Terminal Help	
Uttar Pradesh	MUZAFFARNAGAR	100
Uttar Pradesh	PILIBHIT	100
Uttar Pradesh	PRATAPGARH	101.52
Uttar Pradesh	RAE BARELI	100.07
Uttar Pradesh	RAMPUR	91.23
Uttar Pradesh	SAHARANPUR	100.26
Uttar Pradesh	SANT RAVIDAS NAGAR(BHADOHI)	93.06
Uttar Pradesh	SHAHJAHANPUR	100.16
Uttar Pradesh	SHRAVASTI	94.15
Uttar Pradesh	SIDDHARTHNAGAR	89.25
Uttar Pradesh	SITAPUR	89.57
Uttar Pradesh	SONBHADRA	100
Uttar Pradesh	SULTANPUR	100
Uttar Pradesh	UNNAO	97.4
Uttar Pradesh	VARANASI	97.17
Uttarakhand	BAGESHWAR	83.27
Uttarakhand	CHAMOLI	95.93
Uttarakhand	DEHRADUN	85.25
Uttarakhand	HARIDWAR	89.85
Uttarakhand	NAINITAL	126.02
Uttarakhand	PITHORAGARH	84.16
Uttarakhand	RUDRAPRAYAG	T 105.02
Uttarakhand	TEHRI GARHWAL	83.91
Uttarakhand	UDHAM SINGH NAGAR	95.38
Uttarakhand	UTTARKASHI	90.54
West Bengal	BARDHAMAN	85.98
West Bengal	DAKSHIN DINAJPUR	100.84
West Bengal	H00GHLY	99.28
West Bengal	HOWRAH	99.28
West Bengal	JALPAIGURI	90.55
West Bengal	MIDNAPUR EAST	134.41
West Bengal	MIDNAPUR WEST	117.04
West Bengal	NADIA	92.72
West Bengal	NORTH 24 PARAGANAS	99.03
West Bengal	SOUTH 24 PARAGANAS	94.43
	SOUTH 24 PARAGANAS	

349 rows in set (0.00 sec)

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