Module 3: Assignment - 2

1. Create a database called Demo and use it

```
hive> create database demo;
OK
Time taken: 0.08 seconds
hive> use demo;
OK
Time taken: 0.033 seconds
```

2. Create a table called Suicides in it, matching with the schema of the data

3. Load the given CSV file into the table

```
hive> load data local inpath '/home/bitnami/Suicides.csv' into table suicides;
Loading data to table demo.suicides
OK
Time taken: 1.159 seconds
```

```
hive> select * from suicides limit 10;
A & N Islands
                               Illness (Aids/STD)
                2001
                       Causes
                                                        Female 0-14
A & N Islands
                2001
                       Causes
                               Bankruptcy or Sudden change in Economic Female 0-14
                                                                                       0
A & N Islands
                       Causes Cancellation/Non-Settlement of Marriage Female 0-14
                2001
                                                                                       0
A & N Islands
                2001
                       Causes Physical Abuse (Rape/Incest Etc.)
                                                                       Female 0-14
                                                                                       0
A & N Islands
                2001
                       Causes Dowry Dispute Female 0-14
                                                               0
A & N Islands
                       Causes Family Problems Female 0-14
                2001
                               Ideological Causes/Hero Worshipping
                                                                                       0
A & N Islands
                       Causes
                                                                       Female 0-14
                2001
                       Causes Other Prolonged Illness Female 0-14
A & N Islands
                2001
                       Causes Property Dispute
A & N Islands
                2001
                                                       Female 0-14
                                                                       0
A & N Islands
                2001
                       Causes Fall in Social Reputation
                                                               Female
                                                                       0-14
                                                                               0
Time taken: 0.203 seconds, Fetched: 10 row(s)
```

4. Find out the most common suicide cause among females in India over the entire period 2001-2012

Running Map Reduce Job to view Output

```
Automatically selecting local only mode for query
Query ID = root 20211104175253 1e12d789-6d4a-497b-8476-017b3907d67e
Total jobs = 3
Launching Job 1 out of 3
Number of reduce tasks not specified. Estimated from input data size: 1
In order to change the average load for a reducer (in bytes):
 set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
 set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
 set mapreduce.job.reduces=<number>
Job running in-process (local Hadoop)
2021-11-04 17:52:55,929 Stage-1 map = 100%, reduce = 100%
Ended Job = job local1249027422 0136
Launching Job 2 out of 3
Number of reduce tasks not specified. Estimated from input data size: 1
In order to change the average load for a reducer (in bytes):
  set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
  set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
 set mapreduce.job.reduces=<number>
Selecting local mode for task: Stage-2
Job running in-process (local Hadoop)
2021-11-04 17:52:58,526 Stage-2 map = 100%, reduce = 100%
Ended Job = job local1836210998 0137
Launching Job 3 out of 3
Number of reduce tasks determined at compile time: 1
In order to change the average load for a reducer (in bytes):
 set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
 set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
 set mapreduce.job.reduces=<number>
Selecting local mode for task: Stage-3
Job running in-process (local Hadoop)
2021-11-04 17:53:01,163 Stage-3 map = 100%, reduce = 100%
Ended Job = job_local2003615079_0138
MapReduce Jobs Launched:
Stage-Stage-1: HDFS Read: 1604479480 HDFS Write: 58937522 SUCCESS Stage-Stage-2: HDFS Read: 1604495072 HDFS Write: 58953320 SUCCESS
Stage-Stage-3: HDFS Read: 1604508885 HDFS Write: 58967700 SUCCESS
Total MapReduce CPU Time Spent: 0 msec
OK
```

```
Others (Please Specify) 3512
Time taken: 7.453 seconds, Fetched: 1 row(s)
```

5. Find out the state-wise most common cause among males over the entire period

Running Map Reduce Job to view Output:

```
Automatically selecting local only mode for query
Query ID = root_20211104175520_74f1cfc6-30ab-4847-9a49-3451db873679
Total jobs = 3
Launching Job 1 out of 3
Number of reduce tasks not specified. Estimated from input data size: 1
In order to change the average load for a reducer (in bytes):
 set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
 set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
 set mapreduce.job.reduces=<number>
Job running in-process (local Hadoop)
2021-11-04 17:55:22,834 Stage-1 map = 100%, reduce = 100%
Ended Job = job_local1274085815_0146
Launching Job 2 out of 3
Number of reduce tasks not specified. Estimated from input data size: 1
In order to change the average load for a reducer (in bytes):
 set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
 set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
 set mapreduce.job.reduces=<number>
Selecting local mode for task: Stage-2
Job running in-process (local Hadoop)
2021-11-04 17:55:25,417 Stage-2 map = 100%, reduce = 100%
Ended Job = job_local159793380_0147
Launching Job 3 out of 3
Number of reduce tasks determined at compile time: 1
In order to change the average load for a reducer (in bytes):
 set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
 set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
 set mapreduce.job.reduces=<number>
Selecting local mode for task: Stage-3
Job running in-process (local Hadoop)
2021-11-04 17:55:28,004 Stage-3 map = 100%, reduce = 100%
Ended Job = job_local218665293_0148
MapReduce Jobs Launched:
Stage-Stage-1: HDFS Read: 1728322288 HDFS Write: 59653107 SUCCESS
Stage-Stage-2: HDFS Read: 1728578823 HDFS Write: 59791853 SUCCESS
Stage-Stage-3: HDFS Read: 1728597271 HDFS Write: 59810755 SUCCESS
Total MapReduce CPU Time Spent: 0 msec
OK
```

```
Andhra Pradesh Others (Please Specify) 120
                Others (Please Specify) 120
Rajasthan
Gujarat Others (Please Specify) 120
Chhattisgarh
               Others (Please Specify) 120
Madhya Pradesh Others (Please Specify) 120
Maharashtra
                Others (Please Specify) 120
Harvana Others (Please Specify) 120
Bihar
        Others (Please Specify) 120
                Others (Please Specify) 120
Karnataka
Odisha Others (Please Specify) 119
                Others (Please Specify) 119
Jharkhand
Uttar Pradesh
                Others (Please Specify) 118
                Others (Please Specify) 118
Delhi (Ut)
        Others (Please Specify) 118
Kerala Others (Please Specify) 118
Tamil Nadu
                Others (Please Specify) 116
Tripura Others (Please Specify) 116
Punjab Others (Please Specify) 116
West Bengal
                Others (Please Specify) 115
Himachal Pradesh
                        Others (Please Specify) 113
Goa
        Others (Please Specify) 109
                Others (Please Specify) 107
Jammu & Kashmir Others (Please Specify) 106
Puducherry
                Others (Please Specify) 105
Mizoram Others (Please Specify) 100
Sikkim Others (Please Specify) 99
                Others (Please Specify) 99
Meghalaya
Chandigarh
                Others (Please Specify) 91
A & N Islands
                Others (Please Specify) 91
Daman & Diu
                Others (Please Specify) 86
D & N Haveli
                Others (Please Specify) 85
                Others (Please Specify) 84
Nagaland
Manipur Others (Please Specify) 81
Arunachal Pradesh
                        Others (Please Specify) 80
Lakshadweep
                Others (Please Specify) 62
A & N Islands
                By Over Alcoholism
                                        60
A & N Islands
                Fall in Social Reputation
                                                60
A & N Islands
                Family Problems 60
Time taken: 7.071 seconds, Fetched: 38 row(s)
```

6. Find out the age group-wise most common cause among males and females

Running Map Reduce Job to view Output:

```
Automatically selecting local only mode for query
Query ID = root_20211104175945_7b1867ea-6b96-4915-b925-b2a812318b98
Total jobs = 3
Launching Job 1 out of 3
Number of reduce tasks not specified. Estimated from input data size: 1
In order to change the average load for a reducer (in bytes):
  set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
  set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
 set mapreduce.job.reduces=<number>
Job running in-process (local Hadoop)
2021-11-04 17:59:47,146 Stage-1 map = 100%, reduce = 100%
Ended Job = job_local1587071514_0149
Launching Job 2 out of 3
Number of reduce tasks not specified. Estimated from input data size: 1
In order to change the average load for a reducer (in bytes):
 set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
  set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
  set mapreduce.job.reduces=<number>
Selecting local mode for task: Stage-2
Job running in-process (local Hadoop)
2021-11-04 17:59:49,750 Stage-2 map = 100%, reduce = 100%
Ended Job = job_local1115743452_0150
Launching Job 3 out of 3
Number of reduce tasks determined at compile time: 1
In order to change the average load for a reducer (in bytes):
  set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
  set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
  set mapreduce.job.reduces=<number>
Selecting local mode for task: Stage-3
Job running in-process (local Hadoop)
2021-11-04 17:59:52,324 Stage-3 map = 100%, reduce = 100%
Ended Job = job local1787927152 0151
MapReduce Jobs Launched:
Stage-Stage-1: HDFS Read: 1759417036 HDFS Write: 59826960 SUCCESS
Stage-Stage-2: HDFS Read: 1759455697 HDFS Write: 59855246 SUCCESS
Stage-Stage-3: HDFS Read: 1759471086 HDFS Write: 59871138 SUCCESS
Total MapReduce CPU Time Spent: 0 msec
```

```
Others (Please Specify) 1543
15-29
       Others (Please Specify) 1513
30-44
       Others (Please Specify) 1466
45-59
       Others (Please Specify) 1394
60+
       Others (Please Specify) 1347
0-14
0-100+ Post Graduate and Above 912
0-100+ Graduate
                       912
0-100+ Middle 912
0-100+ Widowed/Widower 912
0-100+ Matriculate/Secondary
                             912
Time taken: 7.172 seconds, Fetched: 10 row(s)
```

7. Find out the total number of suicides per year per state

Running Map Reduce Job to view Output:

```
Automatically selecting local only mode for query
Query ID = root 20211104180348 22747aaf-e3bd-4c5e-9dd8-6d1536a2b865
Total jobs = 3
Launching Job 1 out of 3
Number of reduce tasks not specified. Estimated from input data size: 1
In order to change the average load for a reducer (in bytes):
 set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
 set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
 set mapreduce.job.reduces=<number>
Job running in-process (local Hadoop)
2021-11-04 18:03:50,339 Stage-1 map = 100%, reduce = 100%
Ended Job = job local1803110083 0155
Launching Job 2 out of 3
Number of reduce tasks not specified. Estimated from input data size: 1
In order to change the average load for a reducer (in bytes):
 set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
 set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
  set mapreduce.job.reduces=<number>
Selecting local mode for task: Stage-2
Job running in-process (local Hadoop)
2021-11-04 18:03:52,913 Stage-2 map = 100%, reduce = 100%
Ended Job = job_local50582443_0156
Launching Job 3 out of 3
Number of reduce tasks determined at compile time: 1
In order to change the average load for a reducer (in bytes):
 set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
 set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
 set mapreduce.job.reduces=<number>
Selecting local mode for task: Stage-3
Job running in-process (local Hadoop)
2021-11-04 18:03:54,414 Stage-3 map = 100%, reduce = 100%
Ended Job = job_local122303796_0157
MapReduce Jobs Launched:
Stage-Stage-1: HDFS Read: 1821187902 HDFS Write: 59975289 SUCCESS
Stage-Stage-2: HDFS Read: 1821229609 HDFS Write: 60011712 SUCCESS
Stage-Stage-3: HDFS Read: 1821258119 HDFS Write: 60040604 SUCCESS
Total MapReduce CPU Time Spent: 0 msec
```

2001	Total (All Indi	a)	217012	2002	Lakshadweep	0	
2001	Total (States)			2003	Total (All Indi		221702
2001	Maharashtra	73090		2003	Total (States)		
2001	West Bengal	68450		2003	Maharashtra	73800	
2001	Karnataka	59405		2003	West Bengal	66400	
2001	Tamil Nadu	56450		2003	Karnataka	61805	
2001	Andhra Pradesh	52610		2003	Tamil Nadu	59360	
2001	Kerala 47860			2003	Andhra Pradesh	57045	
2001		34300		2003	Kerala 47190		
2001	Gujarat 23955			2003	Madhya Pradesh	33810	
2001	Odisha 20254			2003	Gujarat 22830		
2001	Chhattisgarh	20051		2003	Odisha 22100		
2001	Uttar Pradesh	17580		2003	Chhattisgarh	19595	
2001	Rajasthan	15975		2003	Uttar Pradesh	18315	
2001	Assam 13230			2003	Rajasthan	18305	
2001	Haryana 10031			2003	Assam 12963		
2001	Delhi (Ut)	6195		2003	Haryana 11135		
2001	Tripura 4270	0200		2003	Delĥi (Ut)	5765	
2001	Total (Uts)	4062		2003	Tripura 4220		
2001	Punjab 3240			2003	Total (Uts)	4058	
2001	Bihar 3015			2003	Punjab 3155		
2001	Puducherry	2645		2003	Bihar 2984		
2001	Uttarakhand	1555		2003	Puducherry	2910	
2001	Himachal Prades		1535	2003	Uttarakhand	1953	
2001	Goa 1280			2003	Himachal Prades	h	1926
2001	Jharkhand	1250		2003	Goa 1500		
2001	Jammu & Kashmir	765		2003	Jharkhand	1360	
2001	A & N Islands	645		2003	Jammu & Kashmir	690	
2001	Arunachal Prade	sh	555	2003	A & N Islands	565	
2001	Sikkim 470			2003	Sikkim 525		
2001	Meghalaya	435		2003	Chandigarh	515	
2001	Chandigarh	350		2003	Arunachal Prade		405
2001	Mizoram 270			2003	D & N Haveli	260	
2001	D & N Haveli	250		2003	Mizoram 260		
2001	Manipur 205			2003	Meghalaya	205	
2001	Nagaland	200		2003	Manipur 130	440	
2001	Daman & Diu	69		2003	Daman & Diu	118	
2001	Lakshadweep	0		2003	Nagaland	109	
2002	Total (All Indi	a)	220834	2003	Lakshadweep	10	007304
2002	Total (States)	216998		2004	Total (All Indi		227394
2002	Maharashtra	72645		2004	Total (States)	223306	
2002	West Bengal	65035		2004	Maharashtra	73645	
2002	Karnataka	61350		2004	Andhra Pradesh	67630	
2002	Andhra Pradesh	58465		2004	West Bengal	67035	
2002	Tamil Nadu	56134		2004	Tamil Nadu	64195	
2002	Kerala 49050			2004	Karnataka	59685	
2002	Madhya Pradesh	34495		2004 2004	Kerala 45265 Madhya Pradesh	33975	
2002	Gujarat 23216			2004	maunya Prauesn	נולננ	