```
lime taken: 0.012 seconds
hive> create table LoginReport(
          SL NO int,
          Agent string,
          Date 1 string,
       Login time string,
         logout time string,
       Duration string
    > row format delimited
    > fields terminated by ',';
OK
Time taken: 0.077 seconds
hive> create table Performance(
          SL NO int,
          Date 1 string,
         Agent Name string,
       Total_Chats int,
Average_Response
         Average Response Time string,
         Average Resolution Time string,
       Average_Resolution Average_Rating float,
       Total_Feedback int
          )
    > row format delimited
    > fields terminated by ',';
OK
Time taken: 0.08 seconds
hive>
```

Dump the data inside the hdfs in the given schema location. Time taken: 0.069 seconds hive> load data local inpath 'file:///tmp/AgentLogingRefAILED: SemanticException Line 1:23 Invalid path ''file hive> load data local inpath 'file:///tmp/data/AgentLogingRefAILED: SemanticException Line 1:23 Invalid path ''file hive> load data local inpath 'file:///tmp/data/AgentLogLoading data to table dbl.loginreport Table dbl.loginreport stats: [numFiles=1, totalSize=55:0K Time taken: 0.669 seconds hive> load data local inpath 'file:///tmp/data/AgentPerLoading data to table dbl.performance Table dbl.performance stats: [numFiles=1, totalSize=10:0K Time taken: 0.241 seconds hive>

3. List of all agents' names.

hive> select Agent from LoginReport; OK Agent Shivananda Sonwane Khushboo Priya Nandani Gupta Hrisikesh Neogi Mukesh Sowmiya Sivakumar Manjunatha A Harikrishnan Shaji Suraj S Bilgi Shivan K Anurag Tiwari Ishawant Kumar Shivan K Shubham Sharma Shivan K Prerna Singh Shivan K Shivan K Hrisikesh Neogi Khushboo Priya Nishtha Jain Prateek iot Hrisikesh Neogi Shivan K Nishtha Jain Khushboo Priya Suraj S Bilgi Mithun S Harikrishnan Shaji Manjunatha A Hrisikesh Neogi Sowmiya Sivakumar Madhulika G Boktiar Ahmed Bappy

```
hive> select Average_Rating from Performance limit 20;
OK
NULL
4.11
3.14
4.55
4.71
3.67
4.62
5.0
5.0
4.38
4.12
3.6
4.43
4.36
4.57
4.3
4.17
4.75
4.25
4.05
Time taken: 0.06 seconds, Fetched: 20 row(s)
hive>
```

5. Total working days for each agents

```
hive> select count(*) as days from Performance group by(
FAILED: SemanticException [Error 10004]: Line 1:50 Inval
tal_chats, average_response_time, average resolution time
hive> select count(*) as days from Performance group by(
FAILED: SemanticException [Error 10004]: Line 1:50 Inval
tal chats, average response time, average resolution time
hive> select count(*) as days from LoginReport group by(
Query ID = cloudera 20220928110909 c6cf124b-aa15-40b4-b3
Total jobs = 1
Launching Job 1 out of 1
Number of reduce tasks not specified. Estimated from inp
In order to change the average load for a reducer (in by
  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>
Starting Job = job 1664363535866 0006, Tracking URL = ht
Kill Command = /usr/lib/hadoop/bin/hadoop job -kill job
Hadoop job information for Stage-1: number of mappers: 1
2022-09-28 11:09:32,510 Stage-1 map = 0%, reduce = 0%
2022-09-28 11:09:40,267 Stage-1 map = 100%, reduce = 0%
2022-09-28 11:09:50,153 Stage-1 map = 100%, reduce = 10
MapReduce Total cumulative CPU time: 2 seconds 260 msec
Ended Job = job 1664363535866 0006
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 2.26
Total MapReduce CPU Time Spent: 2 seconds 260 msec
OK
1
```

```
18
9
17
13
58
208
23
37
2
1
49
16
11
18
17
36
5
8
3
12
11
18
26
17
18
12
10
20
40
15
36
15
35
24
11
20
10
Time taken: 27.8 seconds, Fetched: 50 row(s)
hive>
```

6. Total query that each agent have taken

7. Total Feedback that each agent have received

ve> select count(Total_Chats) as query from Performance gr ery ID = cloudera_20220928112424_2ef9c685-6ff4-41fd-a30d-d tal jobs = 1

```
OK
query
30
30
30
30
0
30
30
30
30
30
30
30
30
60
30
30
30
30
30
30
30
30
30
30
30
30
30
30
30
```

8.Agent name who have average rating between 3.5 to 4

```
Time taken: 30.266 seconds, Fetched: 71 row(s)
hive> select Agent_Name from Performance where Average_Rating BETWEEN 3.5 and 4;
OK
agent name
Swati
Manjunatha A
Boktiar Ahmed Bappy
Prateek _iot
Nandani Gupta
Jaydeep Dixit
Mahesh Sarade
Zeeshan
Hrisikesh Neogi
Muskan Garg
Khushboo Priya
Wasim
Jawala Prakash
Shiva Srivastava
Nishtha Jain
Maitry
Shiva Srivastava
Nandani Gupta
Prerna Singh
Boktiar Ahmed Bappy
Muskan Garg
Chaitra K Hiremath
Harikrishnan Shaji
Wasim
Deepranjan Gupta
Mahesh Sarade
Nishtha Jain
Shivan K
Madhulika G
Rishav Dash
Prabir Kumar Satapathy
Boktiar Ahmed Bappy
Maitry
Nishtha Jain
Khushboo Priya
Boktiar Ahmed Bappy
Mahesh Sarade
```

9. Agent name who have rating less than 3.5

Rishav Dash

```
Time taken: 0.179 seconds, Fetched: 114 row(s)
hive> select Agent_Name from Performance where Average_Rating < 3.5;</pre>
OK
agent name
Nandani Gupta
Hitesh Choudhary
Sanjeevan
Anirudh
Shiva Srivastava
Dibyanshu
Ashish
Uday Mishra
Aditya Shinde
Jayant Kumar
Aditya_iot
Prabir Kumar Satapathy
Saurabh Shukla
Wasim
Samprit
Maitry
Abhishek
Rishav Dash
Aravind
Tarun
Muskan Garq
Ankit Sharma
Bharath
Ashad Nasim
```

10. Agent name who have rating more than 4.5

```
hive> select Agent Name from Performance where Average Rating > 4.5;
OK
agent name
Ameya Jain
Mahesh Sarade
Mukesh
Saikumarreddy N
Sanjeev Kumar
Harikrishnan Shaji
Sowmiya Sivakumar
Boktiar Ahmed Bappy
Shivananda Sonwane
Ishawant Kumar
Deepranjan Gupta
Shivananda Sonwane
Muskan Garq
Aditya iot
Mukesh
Chaitra K Hiremath
Suraj S Bilgi
Mithun S
Wasim
Bharath
Ishawant Kumar
Jawala Prakash
Ayushi Mishra
```

```
:01:21
0:01:02
0:01:51
0:00:24
0:00:40
0:00:47
0:00:32
0:01:49
0:00:51
0:00:38
0:00:59
0:00:44
0:00:45
0:01:01
0:00:30
0:00:25
0:00:39
             0.00.00
0:00:29
             0:00:00
0:00:53
0:01:05
             Time taken: 0.061 seconds, Fetched: 2161 row(s)
0:01:28
0:01:43
             hive> select average response time from Performance;
0:04:02
0:00:00
```

14. Find the number of chat on which they have received a feedback

```
ime taken: 0.395 seconds
ive> select sum(total_feedback) as total from Performance group by agent_name;
iery ID = cloudera_20220928123434_f890c70f-021b-4872-973e-3e4a9f92afa1
btal jobs = 1
aunching Job 1 out of 1
imber of reduce tasks not specified. Estimated from input data size: 1
n order to change the average load for a reducer (in bytes):
    set hive.exec.reducers.bytes.per.reducer=<number>
```

16. Perform inner join, left join and right join based on the agent column and after joining the table export that data into your local system.

```
[cloudera@quickstart ~]$ vim export.hql
[cloudera@quickstart ~]$ hive -f 'export.hql' > localfile.txt
```

```
Agent
                 Date
NULL
                             Login Time
                                                 Logout Time
                                                                                                   NULL
                                                                     Duration
                                                                                         NULL
         Shivananda Sonwane
                                       30-Jul-22
                                                           15:35:29
                                                                               17:39:39
                                                                                                   02:04:10
20
         4.11
         Khushboo Priya
                             30-Jul-22
                                                 15:06:59
                                                                                         00:00:17
                                                                     15:07:16
         Nandani Gupta
                             30-Jul-22
                                                 15:04:24
                                                                     17:31:07
                                                                                         02:26:42
         Hrisikesh Neogi 30-Jul-22
                                                 14:34:29
                                                                     15:19:35
                                                                                         00:45:06
         Mukesh 30-Jul-22
                                       14:03:15
                                                           15:11:52
                                                                               01:08:36
         Sowmiya Sivakumar
                                       30-Jul-22
                                                           14:03:11
                                                                               15:05:37
                                                                                                   01:02:20
         Manjunatha A
                            30-Jul-22
                                                 14:00:12
                                                                     15:08:29
                                                                                         01:08:16
         Harikrishnan Shaji
                                       30-Jul-22
                                                           13:53:05
                                                                               16:06:49
                                                                                                   02:13:43
43
         5.0
         Suraj S Bilgi
                             30-Jul-22
                                                 13:50:01
                                                                     15:11:42
                                                                                         01:21:41
10
         Shivan K
                             30-Jul-22
                                                 13:28:18
                                                                     13:59:00
                                                                                         00:30:42
1
         Anurag Tiwari
                             30-Jul-22
                                                 13:06:12
                                                                     13:11:57
                                                                                         00:05:44
12
         Ishawant Kumar
                             30-Jul-22
                                                 13:05:35
                                                                     13:12:45
                                                                                         00:07:10
13
         Shivan K
                             30-Jul-22
                                                 13:01:33
                                                                     13:27:53
                                                                                         00:26:20
L 4
         Shubham Sharma
                             30-Jul-22
                                                 12:48:50
                                                                                         00:14:20
                                                                     13:03:10
49
         4.57
         Shivan K
15
                                                 12:34:27
                             30-Jul-22
                                                                     12:40:37
                                                                                         00:06:10
         Prerna Singh
                             30-Jul-22
                                                 12:32:28
                                                                     14:10:08
                                                                                         01:37:40
Time taken: 30.32 seconds, Fetched: 1000 row(s)
hive> SELECT * FROM loginreport u LEFT JOIN performance 1 ON u.SL_NO=1.SL_NO;
Query ID = cloudera 20220928130000 197cd918-bf11-406c-8abc-6586072c2a2f
Total jobs = 1
Execution log at: /tmp/cloudera/cloudera_20220928130000_197cd918-bf11-406c-8abc-6586072
2022-09-28 01:00:14 Starting to launch local task to process map join; maximum 2022-09-28 01:00:16 Dump the side-table for tag: 1 with group count: 2161 into file -28_13-00-09_455_6051060040595615669-1/-local-10003/HashTable-Stage-3/MapJoin-mapfile21 2022-09-28 01:00:16 Uploaded 1 File to: file:/tmp/cloudera/4efae792-f986-42b6-b685-
-10003/HashTable-Stage-3/MapJoin-mapfile21--.hashtable (141083 bytes) 2022-09-28 01:00:16 End of local task; Time Taken: 2.05 sec.
Execution completed successfully
MapredLocal task succeeded
Launching Job 1 out of 1
Number of reduce tasks is set to 0 since there's no reduce operator
Starting Job = job_1664363535866_0015, Tracking URL = http://quickstart.cloudera:8088/p
Kill Command = /usr/lib/hadoop/bin/hadoop job -kill job_1664363535866_0015
Time taken: 29.623 seconds, Fetched: 1001 row(s)
hive> SELECT * FROM loginreport u RIGHT JOIN performance l ON u.SL NO=1.SL NO;
```

Fime taken: 30.055 seconds, Fetched: 1001 row(s)
[cloudera@quickstart ~]\$ cat localfile.txt

17. Perform partitioning on top of the agent column and then on top of that perform bucketing for each partitioning.

Total jobs = 1

Query ID = cloudera 20220928130202 4d27d509-e089-4622-a06c-bd351bdcd8af

```
hive> set hive.exec.dynamic.partition.mode=nonstrict;
hive> insert overwrite table LoginReport_partion partition
Query ID = cloudera_20221001015353_31f1b083-365e-40f1-bcdb
Total jobs = 3
Launching Job 1 out of 3
Number of reduce tasks is set to 0 since there's no reduce
Starting Job = job_1664363535866_0020, Tracking URL = http
Kill Command = /usr/lib/hadoop/bin/hadoop job -kill job_1
Hadoop job information for Stage-1: number of mappers: 1;
2022-10-01 01:53:15,732 Stage-1 map = 0%, reduce = 0%
```

```
Loading partition {agent=Agent}
        Loading partition {agent=Shivan K}
        Loading partition {agent=Shiva Srivastava}
        Loading partition {agent=Saurabh Shukla}
        Loading partition {agent=Aditya iot}
        Loading partition {agent=Ayushi Mishra}
        Loading partition {agent=Sudhanshu Kumar}
        Loading partition {agent=Jawala Prakash}
        Loading partition {agent=Shivananda Sonwane}
        Loading partition {agent=Sowmiya Sivakumar}
        Loading partition {agent=Maitry}
        Loading partition {agent=Khushboo Priya}
        Loading partition {agent=Hrisikesh Neoqi}
        Loading partition {agent=Ineuron Intelligence}
        Loading partition {agent=Anurag Tiwari}
        Loading partition {agent=Muskan Garg}
        Loading partition {agent=Aravind}
        Loading partition {agent=Jaydeep Dixit}
        Loading partition {agent=Nishtha Jain}
        Loading partition {agent=Deepranjan Gupta}
        Loading partition {agent=Mahesh Sarade}
        Loading partition {agent=Prerna Singh}
        Loading partition {agent=Mithun S}
        Loading partition {agent=Ankitjha}
        Loading partition {agent=Hyder Abbas}
        Loading partition {agent=Shubham Sharma}
        Loading partition {agent=Swati}
        Loading partition {agent=Nandani Gupta}
        Loading partition {agent=Saikumarreddy N}
        Loading partition {agent=Mukesh}
        Loading partition {agent=Bharath}
         Time taken for adding to write entity: 23
Partition db1.loginreport partion{agent=Aditya Shinde} sta
Partition db1.loginreport partion{agent=Aditya iot} stats:
Partition db1.loginreport partion{agent=Agent} stats: [num
Partition db1.loginreport partion{agent=Amersh} stats: [nu
Partition db1.loginreport partion{agent=Ameya Jain} stats:
Partition db1.loginreport partion{agent=Ankitjha} stats: [
Partition db1.loginreport partion{agent=Anurag Tiwari} sta
Partition db1.loginreport partion{agent=Aravind} stats: [r
Partition db1.loginreport partion{agent=Ayushi Mishra} sta
Partition db1.loginreport partion{agent=Bharath} stats: [r
Partition db1.loginreport partion{agent=Boktiar Ahmed Bapp
Partition db1.loginreport partion{agent=Chaitra K Hiremath
```

hive> insert overwrite table performance_partion partiti
ge_rating,total_feedback,agent_name from performance;
Query ID = cloudera_20221001021818_319b719d-337d-4936-a43e
Total jobs = 3
Launching Job 1 out of 3

```
Stage-5 is filtered out by condition resolver.
Moving data to: hdfs://quickstart.cloudera:8020/user/hive/
1/-ext-10000
Loading data to table dbl.performance partion partition (a
         Time taken for load dynamic partitions: 10796
        Loading partition {agent name=Swati }
        Loading partition {agent name=Boktiar Ahmed Bappy}
        Loading partition {agent name=Suraj S Bilgi}
        Loading partition {agent name=Shivan S }
        Loading partition {agent name=Ashad Nasim}
        Loading partition {agent name=Harikrishnan Shaji}
        Loading partition {agent name=Prerna Singh}
        Loading partition {agent name=Chaitra K Hiremath}
        Loading partition {agent name=Hrisikesh Neogi}
        Loading partition {agent name=Deepranjan Gupta}
        Loading partition {agent name=Madhulika G}
        Loading partition {agent name=Abhishek }
        Loading partition {agent name=Sanjeevan }
        Loading partition {agent name=Rishav Dash}
        Loading partition {agent name=Aditya iot }
        Loading partition {agent_name=Agent Name}
        Loading partition {agent name=Sanjeev Kumar}
        Loading partition {agent name=Amersh }
        Loading partition {agent name=Nitin M}
        Loading partition {agent name=Saurabh Shukla}
        Loading partition {agent name=Ayushi Mishra}
        Loading partition {agent name=Manjunatha A}
        Loading partition {agent name=Aditya Shinde}
        Loading partition {agent name=Wasim }
        Loading partition {agent name=Ankit Sharma}
        Loading partition {agent name=Mahesh Sarade}
        Loading partition {agent name=Shiva Srivastava}
        Loading partition {agent name=Zeeshan }
        Loading partition {agent name=Uday Mishra}
        Loading partition {agent name=Mukesh Rao }
        Loading partition {agent name=Sudhanshu Kumar}
        Loading partition {agent name=Vasanth P}
        Loading partition {agent name=Maitry }
        Loading partition {agent name=Hyder Abbas}
        Loading partition {agent name=Ashish }
        Loading partition {agent name=Anirudh }
        Loading partition {agent name=Ishawant Kumar}
        Loading partition {agent name=Jaydeep Dixit}
        Loading partition {agent name=Saif Khan}
```