```
hive> describe agent login vl;
OK
col name
                data_type
                                 comment
sl no
                         int
agent
                         string
date
                         string
loggin time
                         string
logout_time
                         string
duration
                         string
Time taken: 0.366 seconds, Fetched: 6 row(s)
```

## Schema of Agent\_performance:

```
nive> describe agent performance;
ol name
               data type
                                comment
al no
late
                       string
gent name
                       string
otal chat
                       int
verage_response_time timestamp
varage resolution time timestamp
verage rating
                       float
otal feedback
ime taken: 0.24 seconds, Fetched: 8 row(s)
```

## 2. Dump the data inside the hdfs in the given schema location.

```
[cloudera@quickstart ~] $ hadoop fs -ls /user/hive/warehouse/hive_class_a2.db/agent_login_vl
Found 1 items
-rwxrwxrwx 1 cloudera supergroup
Found 1 items
-rwxrwxrwx 1 cloudera supergroup
Found 2 items
-rwxrwxrwx 1 cloudera supergroup
Found 3 items
-rwxrwxrwx 1 cloudera supergroup
Found 4 items
-rwxrwxrwx 1 cloudera supergroup
Found 55351 2022-09-29 03:58 /user/hive/warehouse/hive_class_a2.db/agent_login_vl/AgentLogingReport.csv
[cloudera@quickstart ~] $ hadoop fs -ls /user/hive/warehouse/hive_class_a2.db/agent_performance_vl
Found 1 items
-rwxrwxrwx 1 cloudera supergroup
Found 1 items
-rwxrwxrwx 1 cloudera supergroup
109853 2022-09-29 09:42 /user/hive/warehouse/hive_class_a2.db/agent_performance_vl/AgentPerformance.csv
[cloudera@quickstart ~] $
```

## 3. List of all agents' names.

```
ive> select agent from agent_login_v1;

K
gent
hivamanda Sonwane
hivamanda Sonwane
risa
andani Gupta
ndani Gupta
ndani Gupta
ndani Supakumar
anjunatha A
arikrishnan Shaji
hivan
hivan K
hubham flarma
hivan K
hubham Sharma
hivan K
nisikesh Neogi
hivan K
risikesh Neogi
hivan K
sishtha Jain
hishtha Jain
hishtha Jain
hishtha Shari
hivan K
sishtha Jain
hishtha Singh
hivan K
sishtha Jain
hishtha Shaji
anjunatha A
risikesh Neogi
owmiya Sivakumar
adhulika G
oktilar Ahmed Bappy
```

## 4. Find out agent average rating.

```
avg_rating
1.4609629649255012
Time taken: 119.357 seconds, Fetched: 1 row(s)
```

## 5. Total working days for each agents:

OR		
	total wo	rking days
Abhishek	30	
Aditya 30		
Aditya Shinde	30	
Aditya iot	30	
Amersh 30		
Ameya Jain	30	
Anirudh	30	
Ankit Sharma	30	
Ankitjha	30	
Anurag Tiwari	30	
Aravind	30	
Ashad Nasim	30	
Ashish 60		
Ayushi Mishra	30	
Bharath	30	
Boktiar Ahmed Ba	appy	30
Chaitra K Hirema	ath	30
Deepranjan Gupta	a.	30
Dibyanshu	30	
Harikrishnan Sha	aji	30
Hitesh Choudhary	7	30
Hrisikesh Neogi	30	
Hyder Abbas	30	
Ineuron Intellig	gence	30
Ishawant Kumar	30	
Jawala Prakash	30	
Jayant Kumar	30	
Jaydeep Dixit		
Khushboo Priya	30	
Madhulika G	30	
Mahak 30		
Mahesh Sarade	30	
Maitry 30		
Maneesh	30	
Manjunatha A	30	
Mithun S	30	

```
Mukesh 30
Mukesh Rao
              30
Muskan Garg
              30
Nandani Gupta 30
Nishtha Jain
              30
Nitin M 30
Prabir Kumar Satapathy 30
Prateek iot
Prerna Singh
              30
Rishav Dash
              60
Rohan 30
Saif Khan
             30
Saikumarreddy N 30
Samprit 30
Sandipan Saha 30
Sanjeev Kumar 30
Sanjeevan 30
Saurabh Shukla 30
                     30
Shiva Srivastava
Shivan K 30
         30
Shivan S
Shivananda Sonwane
                     30
Shubham Sharma 30
Sowmiya Sivakumar
                     30
Spuri 30
Sudhanshu Kumar 30
Suraj S Bilgi
Swati
Tarun 30
Uday Mishra 30
Vasanth P
              30
Vivek 30
Wasim
     30
Zeeshan
              30
Time taken: 76.442 seconds, Fetched: 70 row(s)
hive>
```

## 6. Total query that each agent have taken

agent_name	total q	ierv
Abhishek	30	
Aditya 30		
Aditya Shinde	30	
Aditya_iot	30	
Amersh 30		
Ameya Jain	30	
Anirudh	30	
Ankit Sharma	30	
	30	
Anurag Tiwari	30	
Aravind	30	
Aravind Ashad Nasim	30	
Ashish 60		
Ayushi Mishra	30	
Bharath	30	
Boktiar Ahmed Ba	арру	30
Chaitra K Hirema	ath	30
Deepranjan Gupta		30
Dibyanshu	30	
Harikrishnan Sha	aji	30
Hitesh Choudhary	7	30
Hrisikesh Neogi	30	
Hyder Abbas	30	
Ineuron Intellig		30
Ishawant Kumar		
Jawala Prakash		
Jayant Kumar	30	
Jaydeep Dixit	30	
Khushboo Priya	30	
Madhulika G	30	
Mahak 30		
Mahesh Sarade	30	
Maitry 30		
Maneesh	30	
Manjunatha A	30	
Mithun S	30	
Mukesh 30		
Mukesh Rao	30	

```
Mukesh 30
Mukesh Rao 30
Muskan Garg 30
Nandani Gupta
               30
                30
Nishtha Jain
Nitin M 30
Prabir Kumar Satapathy 30
Prateek _iot 30
Prerna Singh 30
Rishav Dash 60
Rohan 30
Saif Khan 30
Saikumarreddy N 30
Samprit 30
Sandipan Saha 30
Sanjeev Kumar 30
Sanjeevan 30
Saurabh Shukla 30
Shiva Srivastava
                        30
Shivan K 30
Shivan_S 30
Shivananda Sonwane
                        30
Shubham Sharma 30
Sowmiya Sivakumar 30
Spuri 30
Sudhanshu Kumar 30
Suraj S Bilgi 30
Swati 30
Tarun 30
Uday Mishra 30
Vasanth P 30
Vivek 30
Wasim 30
Zeeshan
                30
Time taken: 78.2 seconds, Fetched: 70 row(s)
```

## 7. Total Feedback that each agent have received

agent_name	total_f	eedback
Abhishek	0	
Aditya 0	150	
Aditya Shinde	153	
Aditya_iot	131	
Amersh 0	222	
Ameya Jain	228	
Anirudh	39	
Ankit Sharma	0	
Ankitjha	3	
Anurag Tiwari		
Aravind	233	
Ashad Nasim	9	
Ashish 0	226	
Ayushi Mishra		
Bharath	247	011
Boktiar Ahmed Ba		
Chaitra K Hirema		37
Deepranjan Gupta		312
Dibyanshu		221
Harikrishnan Sha		231
Hitesh Choudhar	_	0
Hrisikesh Neogi		
Hyder Abbas		
Ineuron Intelli		0
Ishawant Kumar		
Jawala Prakash		
Jayant Kumar		
Jaydeep Dixit		
Khushboo Priya		
	281	
Mahak 5		
Mahesh Sarade	216	
Maitry 347		
Maneesh	3	
Manjunatha A		
Mithun S	364	
Mukesh 17	_	
Mukesh Rao	5	
Muskan Garg	37	

	37	
Nandani Gupta		
Nishtha Jain	257	
Nitin M 0		
Prabir Kumar Sat		222
Prateek _iot	107	
Prerna Singh	235	
Rishav Dash	264	
Rohan 0		
Saif Khan	0	
Saikumarreddy N	290	
Samprit	0	
Sandipan Saha	18	
Sanjeev Kumar	311	
Sanjeevan	0	
Saurabh Shukla	8	
Shiva Srivastava	a	46
Shivan K	243	
Shivan S	4	
Shivananda Sonwa	ane	263
Shubham Sharma	300	
Sowmiya Sivakuma	ar	141
Spuri 0		
Sudhanshu Kumar	2	
Suraj S Bilgi	15	
Swati 302		
Tarun 6		
Uday Mishra	0	
Vasanth P	0	
Vivek 20		
Wasim 284		
Zeeshan	335	
Time taken: 77.4	19 secon	ds, I

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

agent_name	average	_rating	Jawala Prakash		
Swati 3.67	0.6		Sanjeev Kumar		
Manjunatha A		4 0	Sandipan Saha		
Boktiar Ahmed B		4.0	Madhulika G		
Prateek _iot			Ayushi Mishra		
Nandani Gupta			Shivan K		
Jaydeep Dixit			Hrisikesh Neogi		
Mahesh Sarade			Nandani Gupta	3.89	
Zeeshan	3.79		Harikrishnan Sh		3.7
Hrisikesh Neogi			Nishtha Jain		
Muskan Garg			Manjunatha A	4.0	
Khushboo Priya	3.79		Anirudh	3.77	
Wasim 3.95			Swati 3.62		
Jawala Prakash			Maitry 3.75		
Shiva Srivastav		4.0	Madhulika G		
Nishtha Jain	3.67		Jaydeep Dixit	4.0	
Maitry 4.0			Zeeshan	3.75	
Shiva Srivastav		4.0	Nishtha Jain	3.73	
Nandani Gupta			Wasim 3.64		
Prerna Singh			Manjunatha A	4.0	
Shivan K			Ishawant Kumar	3.67	
Boktiar Ahmed B		3.8	Jayant Kumar	3.76	
Muskan Garg			Maneesh	4.0	
Chaitra K Hirem			Harikrishnan Sh	aji	4.0
Harikrishnan Sh	aji	3.73	Anurag Tiwari	3.5	
Wasim 3.92			Mithun S	3.86	
Deepranjan Gupt	a	3.69	Prabir Kumar Sa	tapathy	4.0
Mahesh Sarade	3.81		Saurabh Shukla		
Nishtha Jain	3.92		Aditya iot		
Shivan K	3.9		Maitry 3.92		
Madhulika G	3.62		Shivananda Sonw	ane	3.7
Rishav Dash	3.8		Ameya Jain		
Prabir Kumar Sa	tapathy	4.0	Swati 4.0		
Boktiar Ahmed B	appy	4.0	Ashad Nasim	4.0	
Maitry 3.73			Prabir Kumar Sa		4.0
Nishtha Jain	3.69		Boktiar Ahmed B		
Khushboo Priya	3.95		Nishtha Jain		
Boktiar Ahmed B		3.77	Ayushi Mishra	3.8	
Mahesh Sarade	3.5		Shivan K	4.0	
Rishav Dash	3.67		Shubham Sharma		
Mithun S	3.75		Jawala Prakash		
Jawala Prakash			Sanjeev Kumar	4.0	
			Aditya Shinde	3.54	
			Marcya Shinac	3.31	

## 9. Agent name who have rating less than 3.5

agent name Abhishek Aditya Aditya Shinde Aditya\_iot Amersh Ameva Jain Anirudh Ankit Sharma Ankitjha Anurag Tiwari Aravind Ashad Nasim Ashish Ayushi Mishra Bharath Boktiar Ahmed Bappy Chaitra K Hiremath Deepranjan Gupta Dibyanshu Harikrishnan Shaji Hitesh Choudhary Hrisikesh Neogi Hyder Abbas Ineuron Intelligence Ishawant Kumar Jawala Prakash Jayant Kumar Jaydeep Dixit Khushboo Priya Madhulika G Mahak Mahesh Sarade Maitry Maneesh Manjunatha A Mithun S Mukesh Mukesh Rao

Muskan Garg Nandani Gupta Muskan Garg Nandani Gupta Nishtha Jain Nitin M Prabir Kumar Satapathy Prateek \_iot Prerna Singh Rishav Dash Rohan Saif Khan Saikumarreddy N Samprit Sandipan Saha Sanjeev Kumar Sanjeevan Saurabh Shukla Shiva Srivastava Shivan K Shivan S Shivananda Sonwane Shubham Sharma Sowmiya Sivakumar Spuri Sudhanshu Kumar Suraj S Bilgi Swati Tarun Uday Mishra Vasanth P Vivek Wasim Zeeshan Time taken: 74.736 seconds, Fetched: 70 row(s)

## 10. Agent name who have rating more than 4.5

```
agent name
Aditya Shinde
Aditya iot
Ameya Jain
Anirudh
Ankitjha
Aravind
Ayushi Mishra
Bharath
Boktiar Ahmed Bappy
Chaitra K Hiremath
Deepranjan Gupta
Harikrishnan Shaji
Hrisikesh Neogi
Ishawant Kumar
Jawala Prakash
Jayant Kumar
Jaydeep Dixit
Khushboo Priya
Madhulika G
Mahesh Sarade
Maitry
Manjunatha A
Mithun S
Mukesh
Mukesh Rao
Muskan Garg
Nandani Gupta
Nishtha Jain
Prabir Kumar Satapathy
Prateek iot
Prerna Singh
Rishav Dash
Saikumarreddy N
Sandipan Saha
Sanjeev Kumar
Saurabh Shukla
```

Shiva Srivastava

```
Saurabh Shukla
Shiva Srivastava
Shivan K
Shivananda Sonwane
Shubham Sharma
Sowmiya Sivakumar
Sudhanshu Kumar
Suraj S Bilgi
Swati
Vivek
Wasim
Zeeshan
Time taken: 75.308 seconds, Fetched: 47 row(s)
hive>
```

## How many feedback agents have received more than 4.5 average

```
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CP Total MapReduce CPU Time Spent: 13 seconds 910 m OK number_of_agent 47
Time taken: 76.307 seconds, Fetched: 1 row(s) bive>
```

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

```
total feedback number of chat
         48
2 3 4 5
         125
         145
         211
         234
         336
7
8
         332
         327
         644
10
         598
11
         766
12
         776
13
         945
14
         973
15
         1131
16
         611
17
         855
18
         777
19
         660
20
         627
21
         378
22
         386
23
         135
24
         630
25
         254
26
         332
27
         194
28
         336
29
         52
30
         94
31
         39
32
         33
33
         132
35
         132
37
         172
39
         63
40
         55
52
         97
56
         67
Time taken: 77.652 seconds, Fetched: 39 row(s)
```

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 ~]$ ls /tmp/hive_class_output
000000_0
[cloudera@quickstart ~]$ ls /tmp/hive_class_output2
000000_0
[cloudera@quickstart ~]$ ls /tmp/hive_class_output3
000000_0
[cloudera@quickstart ~]$
```

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

```
0 2022-10-07 00:26 /user/hive/warehouse/hive_class a2.db/agent_login_dynamic_part/agent=Aditya_iot
0 2022-10-07 00:26 /user/hive/warehouse/hive_class_a2.db/agent_login_dynamic_part/agent=Aditya_iot
0 2022-10-07 00:26 /user/hive/warehouse/hive_class_a2.db/agent_login_dynamic_part/agent=Amersh
0 2022-10-07 00:26 /user/hive/warehouse/hive_class_a2.db/agent_login_dynamic_part/agent=Amersh
0 2022-10-07 00:26 /user/hive/warehouse/hive_class_a2.db/agent_login_dynamic_part/agent=Amersh
0 2022-10-07 00:26 /user/hive/warehouse/hive_class_a2.db/agent_login_dynamic_part/agent=Amint_jha
0 2022-10-07 00:26 /user/hive/warehouse/hive_class_a2.db/agent_login_dynamic_part/agent=Aravind
0 2022-10-07 00:26 /user/hive/warehouse/hive_class_a2.db/agent_login_dynamic_part/agent=Amint_hishaa
0 2022-10-07 00:26 /user/hive/warehouse/hive_class_a2.db/agent_login_dynamic_part/agent=Bharath
0 2022-10-07 00:26 /user/hive/warehouse/hive_class_a2.db/agent_login_dynamic_part/agent=Boktiar_Ahmed_Bappy
2022-10-07 00:26 /user/hive/warehouse/hive_class_a2.db/agent_login_dynamic_part/agent=Deepranjan_Gupta
0 2022-10-07 00:26 /user/hive/warehouse/hive_class_a2.db/agent_login_dynamic_part/agent=Deepranjan_Gupta
0 2022-10-07 00:26 /user/hive/warehouse/hive_class_a2.db/agent_login_dynamic_part/agent=Deepranjan_Gupta
0 2022-10-07 00:26 /user/hive/warehouse/hive_class_a2.db/agent_login_dynamic_part/agent=Hirisikesh_Neogi
 drwxrwxrwx
                                                          cloudera supergroup
                                                   - cloudera supergroup
   rwxrwxrwx
  drwxrwxrwx
                                                 - cloudera supergroup
drwxrwxrwx
                                               - cloudera supergroup
- cloudera supergroup
drwxrwxrwx
drwxrwxrwx
                                              - cloudera supergroup
- cloudera supergroup
 drwxrwxrwx
drwxrwxrwx
drwxrwxrwx
                                               - cloudera supergroup
 drwxrwxrwx
                                              - cloudera supergroup
- cloudera supergroup
drwxrwxrwx
                                                - cloudera supergroup
drwxrwxrwx
                                                - cloudera supergroup
                                                                                                                                                                         drwxrwxrwx
                                                 - cloudera supergroup
drwxrwxrwx
drwxrwxrwx
                                                - cloudera supergroup
                                               - cloudera supergroup
- cloudera supergroup
drwxrwxrwx
                                               - cloudera supergroup
- cloudera supergroup
drwxrwxrwx
                                                                                                                                                                          0 2022-10-07 00:26 /user/hive/warehouse/hive_class_a2.db/agent_login_dynamic_part/agent=Mukesh
0 2022-10-07 00:26 /user/hive/warehouse/hive_class_a2.db/agent_login_dynamic_part/agent=Mukeah Garg
0 2022-10-07 00:26 /user/hive/warehouse/hive_class_a2.db/agent_login_dynamic_part/agent=Nandani Gupta
0 2022-10-07 00:26 /user/hive/warehouse/hive_class_a2.db/agent_login_dynamic_part/agent=Nishtha Jain
0 2022-10-07 00:26 /user/hive/warehouse/hive_class_a2.db/agent_login_dynamic_part/agent=Nitin M
0 2022-10-07 00:26 /user/hive/warehouse/hive_class_a2.db/agent_login_dynamic_part/agent=Prabir Kumar Satapathy
0 2022-10-07 00:26 /user/hive/warehouse/hive_class_a2.db/agent_login_dynamic_part/agent=Prateek_iot
0 2022-10-07 00:26 /user/hive/warehouse/hive_class_a2.db/agent_login_dynamic_part/agent=Prerna Singh
drwxrwxrwx
                                                - cloudera supergroup
                                                - cloudera supergroup
drwxrwxrwx
                                                - cloudera supergroup
drwxrwxrwx
drwxrwxrwx
                                                 - cloudera supergroup
                                                  - cloudera supergroup
                                                                                                                                                                           0 2022-10-07 00:26 /user/hive/warehouse/hive_class_a2.db/agent_login_dynamic_part/agent=Rishav Dash
0 2022-10-07 00:26 /user/hive/warehouse/hive_class_a2.db/agent_login_dynamic_part/agent=Rishav Dash
0 2022-10-07 00:26 /user/hive/warehouse/hive_class_a2.db/agent_login_dynamic_part/agent=Saikumarreddy N
0 2022-10-07 00:26 /user/hive/warehouse/hive_class_a2.db/agent_login_dynamic_part/agent=Sanjeev Rumar
0 2022-10-07 00:26 /user/hive/warehouse/hive_class_a2.db/agent_login_dynamic_part/agent=Shiva Srivastava
0 2022-10-07 00:26 /user/hive/warehouse/hive_class_a2.db/agent_login_dynamic_part/agent=Shiva Srivastava
0 2022-10-07 00:26 /user/hive/warehouse/hive_class_a2.db/agent_login_dynamic_part/agent=Shiva Srivastava
0 2022-10-07 00:26 /user/hive/warehouse/hive_class_a2.db/agent_login_dynamic_part/agent=Shivan K
0 2022-10-07 00:26 /user/hive/warehouse/hive_class_a2.db/agent_login_dynamic_part/agent=Shivan K
   rwxrwxrwx
                                                  - cloudera supergroup
drwxrwxrwx
                                                - cloudera supergroup
  irwxrwxrwx
                                                 - cloudera supergroup
```