**Lag and lead**

->create table lagdemo(a int);

->load data inpath ' /user/hue/hiveinput/data.txt' overwrite into table lagdemo;

we want to access previous and next values **over column ‘a’**note therefore the over clause in the following query

|  |  |
| --- | --- |
| 1 | select lag(a, 1) over (order by a) as previous, a, lead(a, 1) over (order by a) as next from lagdemo; |

which outputs the following:

previous a next

NULL 1 2

1 2 3

2 3 4

3 4 5

4 5 6

5 6 7

6 7 8

7 8 9

8 9 NULL

note how the previous and next values are NULL at the edge cases. You could specify a value in such cases as in the following query which specifies 0.

|  |  |
| --- | --- |
| 1 | select lag(a, 1, 0) over (order by a) as previous, a, lead(a, 1, 0) over (order by a) as next from lagdemo; |

which outputs the following:

previous a next

0 1 2

1 2 3

2 3 4

3 4 5

4 5 6

5 6 7

6 7 8

7 8 9

8 9 0

lag(a, 1) will fetch the previous value while lag(a, 2) will fetch the previous to previous value.

|  |  |
| --- | --- |
|  |  |