

# RLIKE() Function in Hive

RLIKE stands for Right Like. RLIKE is special function in hive where if any substring of A matches with B then it evaluates to true

Hive has both LIKE and RLIKE, which uses regular expressions.

- Ex1:

```
hive> Select 'Hive' rlike 'H';
OK
_c0
true
Time taken: 0.812 seconds, Fetched: 1 row(s)
hive> Select 'Hive' rlike 'Ma';
OK
_c0
false
Time taken: 0.898 seconds, Fetched: 1 row(s)
hive>
```

- RLIKE also obeys the Java regular expressions.

```
hive> Select 'Hadoop' rlike '^Ha';
OK
_c0
true
Time taken: 0.541 seconds, Fetched: 1 row(s)
hive> Select 'Hadoop' rlike '$Ha';
OK
_c0
false
Time taken: 0.571 seconds, Fetched: 1 row(s)
hive>
```

- RLIKE returns null, if any of the string or sub-string is null.

```
hive> Select null RLIKE 'ABC';
OK
_c0
NULL
Time taken: 0.643 seconds, Fetched: 1 row(s)
hive> Select 'ABC' RLIKE Null;
OK
_c0
NULL
Time taken: 0.748 seconds, Fetched: 1 row(s)
hive>
```

- In below example, we are searching for the EMP\_NAME having sub-string 'la'.

```
hive> Select EMP_ID, EMP_NAME from EMP_DATA1;
OK
emp_id  emp_name
249972  Swati Girhepunje
249973  Tanjila Pathan
249974  Shweta Bedmutha
149975  Sheela Sawant
249976  Rajesh Kharache
Time taken: 0.575 seconds, Fetched: 5 row(s)
hive> Select EMP_ID, EMP_NAME from EMP_DATA1 where EMP_NAME RLIKE 'la';
OK
emp_id  emp_name
249973  Tanjila Pathan
149975  Sheela Sawant
Time taken: 0.363 seconds, Fetched: 2 row(s)
hive>
```

- And in below example, we are searching for the values in Designation column having numbers in it.

```
hive> Select EMP_ID, DESIGNATION from EMP_DATA1;
OK
emp_id  designation
249972  Test Lead123
249973  Test Lead123
249974  Dev Lead
149975  Manager
249976  Manager
Time taken: 1.531 seconds, Fetched: 5 row(s)
hive> Select EMP_ID, DESIGNATION from EMP_DATA1 where DESIGNATION RLIKE '[0-9]+';
OK
emp_id  designation
249972  Test Lead123
249973  Test Lead123
Time taken: 0.888 seconds, Fetched: 2 row(s)
hive>
```