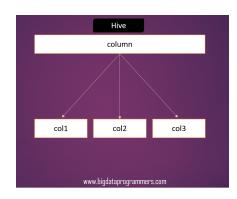
### Split one column into multiple columns in hive

IN: HIVE

## Requirement

Suppose, you have one table in hive with one column and you want to split this column into multiple columns and then store the results into another Hive table.



## Solution

Assume the name of hive table is "transact\_tbl" and it has one column named as "connections", and values in connections column are comma separated and total two commas are present in each value.

## Step 1: Create Hive Table

Create an input table transact\_tbl in bdp schema using below command.

```
- Show or hide the code
01. CREATE TABLE bdp.transact_tbl(connections STRING);
```

# Step 2: Insert Data in Hive

Insert data into connections columns, String should be comma separated. For e.g. "PSTP, POST, FRDE" is one value of connections column.

```
- Show or hide the code

01. INSERT INTO TABLE transact_tbl VALUES('PSTP,POST,FRDE'),

02. ('LEFD,HSYT,YDTH'),

03. ('AQSV,NESA,LRAJ'),

04. ('KSAI,SJAA,PSOA'),

05. ('SHAG,JSGS,AGAQ'),

06. ('AQDS,KAHY,AGQG'),

07. ('BAGW,AHQG,HAFY');
```

## Step 3: Show Hive data

Let's see how data looks in a transact\_tbl table using below command:

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- Show or hide the code

```
> SELECT connections FROM bdp.transact_tbl;

OK
connections
PSTP, POST, FRDE
LEFD, HSTY, YDTH
AGSV, NESA, LRAJ
KSAI, SJAA, PSOA
SHAG, JSGS, AGAQ
AQDS, KAHY, AGQG
BAGW, AHQG, HAFY
Time taken: 0.22 seconds, Fetched: 7 row(s)
```

## Step 4: Create Output hive table

Create an output table where you want to store split values. Run below command in the hive:

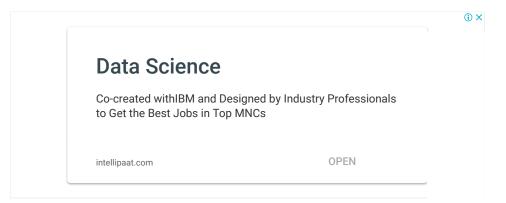
```
- Show or hide the code

01. CREATE TABLE optrans_tbl(con1 STRING,con2 STRING,con3 STRING);
```

## Step 5: Use Hive function

There is a built-in function SPLIT in the hive which expects two arguments, the first argument is a string and the second argument is the pattern by which string should separate.

It will convert String into an array, and desired value can be fetched using the right index of an array.



Use below query to store split records in the hive table:-

```
- Show or hide the code

01. INSERT INTO TABLE bdp.optrans_tbl

02. SELECT CONCTNS.splitted_cnctns[0] AS con1,

03. CONCTNS.splitted_cnctns[1] AS con2,

04. CONCTNS.splitted_cnctns[2] AS con3

05. FROM (SELECT split(connections,',') AS splitted_cnctns

06. FROM bdp.transact_tbl)CONCTNS;
```

In the above query, you can see that splitted\_cnctns is an array with three values in it, which can be extracted using the proper index as con1, con2, and con3.

Inner query is used to get the array of split values and the outer query is used to assign each value to a separate column.

#### Step 6: Show output

Let's see how data looks like in an optrans\_tbl table using below command:





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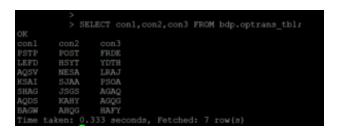
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it should show output as below.-



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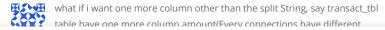




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I have solved it, thank you 🙂

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