http://www.tutorialspoint.com/postgresql/postgresql null values.htm

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The PostgreSQL **NULL** is the term used to represent a missing value. A NULL value in a table is a value in a field that appears to be blank.

A field with a NULL value is a field with no value. It is very important to understand that a NULL value is different than a zero value or a field that contains spaces.

Syntax:

The basic syntax of using **NULL** while creating a table is as follows:

```
CREATE TABLE COMPANY(

ID INT PRIMARY KEY NOT NULL,

NAME TEXT NOT NULL,

AGE INT NOT NULL,

ADDRESS CHAR(50),

SALARY REAL

);
```

Here, **NOT NULL** signifies that column should always accept an explicit value of the given data type. There are two columns where we did not use NOT NULL. Hence this means these columns could be NULL.

A field with a NULL value is one that has been left blank during record creation.

Example:

The NULL value can cause problems when selecting data, however, because when comparing an unknown value to any other value, the result is always unknown and not included in the final results. Consider the following table, <u>COMPANY</u> having the following records:

ID	NAME	AGE	ADDRESS	SALARY
1	Paul	32	California	20000.0
2	Allen	25	Texas	15000.0
3	Teddy	23	Norway	20000.0
4	Mark	25	Rich-Mond	65000.0
5	David	27	Texas	85000.0
6	Kim	22	South-Hall	45000.0
7	James	24	Houston	10000.0

Let us use UPDATE statement to set few nullable values as NULL as follows:

```
testdb=# UPDATE COMPANY SET ADDRESS = NULL, SALARY = NULL where ID IN(6,7);
```

Now, COMPANY table should have the following records:

```
id | name | age | address
                                 salary
 1 | Paul
               32 | California
                                    20000
                    Texas
     Allen |
               25
                                    15000
 3
     Teddy
               23
                                    20000
                    Norway
  4
     Mark
               25
                    Rich-Mond
                                    65000
  5
     David
               27
                    Texas
                                    85000
               22
      Kim
    | James |
               24
  7
(7 rows)
```

Next, let us see the usage of **IS NOT NULL** operator to list down all the records where SALARY is not NULL:

```
testdb=# SELECT ID, NAME, AGE, ADDRESS, SALARY
FROM COMPANY
WHERE SALARY IS NOT NULL;
```

Above PostgreSQL statement will produce the following result:

Following is the usage of **IS NULL** operator which will list down all the records where SALARY is NULL:

```
testdb=# SELECT ID, NAME, AGE, ADDRESS, SALARY
FROM COMPANY
WHERE SALARY IS NULL;
```

Above PostgreSQL statement will produce the following result: