# POSTGRESQL - EXPRESSIONS

http://www.tutorialspoint.com/postgresql/postgresql expressions.htm

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An expression is a combination of one or more values, operators, and PostgresSQL functions that evaluate to a value.

PostgreSQL EXPRESSIONs are like formulas and they are written in query language. You can also use to query the database for specific set of data.

#### Syntax:

Consider the basic syntax of the SELECT statement as follows:

```
SELECT column1, column2, columnN
FROM table_name
WHERE [CONTION | EXPRESSION];
```

There are different types of PostgreSQL expressions, which are mentioned below:

#### **PostgreSQL - Boolean Expressions:**

PostgreSQL Boolean Expressions fetch the data on the basis of matching single value. Following is the syntax:

```
SELECT column1, column2, columnN
FROM table_name
WHERE SINGLE VALUE MATCHTING EXPRESSION;
```

Consider the table **COMPANY** having records as follows:

Here is the simple example showing usage of PostgreSQL Boolean Expressions:

```
testdb=# SELECT * FROM COMPANY WHERE SALARY = 10000;
```

Above PostgreSQL statement will produce the following result:

## **PostgreSQL - Numeric Expression:**

These expressions are used to perform any mathematical operation in any query. Following is the syntax:

```
SELECT numerical_expression as OPERATION_NAME
[FROM table_name WHERE CONDITION] ;
```

Here numerical\_expression is used for mathematical expression or any formula. Following is a simple examples showing usage of SQL Numeric Expressions:

```
testdb=# SELECT (15 + 6) AS ADDITION ;
```

Above PostgreSQL statement will produce the following result:

```
addition
-------
21
(1 row)
```

There are several built-in functions like avg, sum, count, etc., to perform what is known as aggregate data calculations against a table or a specific table column.

```
testdb=# SELECT COUNT(*) AS "RECORDS" FROM COMPANY;
```

Above PostgreSQL statement will produce the following result:

```
RECORDS
------
7
(1 row)
```

### **PostgreSQL - Date Expressions:**

Date Expressions return current system date and time values and these expressions will be used in various data manipulations.

```
testdb=# SELECT CURRENT_TIMESTAMP;
```

Above PostgreSQL statement will produce the following result:

```
now

2013-05-06 14:38:28.078+05:30

(1 row)

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