SQL - EXPRESSIONS

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

SQL EXPRESSIONs are like formulas and they are written in query language. You can also used 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 SQL expression, which are mentioned below:

SQL - Boolean Expressions:

SQL 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 CUSTOMERS table has following records:

Here is simple examples showing usage of SQL Boolean Expressions:

SQL - Numeric Expression:

This expression is 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:

```
SQL> SELECT (15 + 6) AS ADDITION
+-----+
| ADDITION |
+-----+
| 21 |
+-----+
1 row in set (0.00 sec)
```

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.

```
SQL> SELECT COUNT(*) AS "RECORDS" FROM CUSTOMERS;
+-----+
| RECORDS |
+-----+
| 7 |
+-----+
1 row in set (0.00 sec)
```

SQL - Date Expressions:

Date Expressions return current system date and time values:

```
SQL> SELECT CURRENT_TIMESTAMP;

+-----+
| Current_Timestamp |
+-----+
| 2009-11-12 06:40:23 |
+-----+
1 row in set (0.00 sec)
```

Another date expression is as follows: