

# PROGRESS DATADIRECT SQL ENGINE UPGRADE

The SQL engine for Progress DataDirect drivers has been upgraded beginning with the 8.0 release of the Progress DataDirect for ODBC for MongoDB driver and the 6.0 release of the Progress DataDirect for JDBC for MongoDB driver. Consequently, there are some differences in how the latest versions of the drivers handle SQL queries compared with previous versions. The following describes the new behavior found in the 8.0 and 6.0 versions of the drivers.

## COUNT Aggregate

COUNT(DISTINCT \*) is not accepted by the driver. For example, `SELECT COUNT(DISTINCT *) FROM mytable` results in the following error.

```
[DataDirect][MongoDB JDBC Driver][MongoDB]syntax error or access rule violation: unexpected token: )
```

## LIKE Arguments

The LIKE operator requires the right-hand side of an expression to evaluate to a string or binary. In this example, the expression on the right-hand side evaluates to the type of datecol.

```
SELECT charcol, integercol FROM mytable WHERE datecol LIKE (SELECT datecol FROM mytable WHERE integercol = 21) ORDER BY charcol
```

This type of query results in the following error.

```
[DataDirect][MongoDB JDBC Driver][MongoDB]syntax error or access rule violation: incompatible data type in operation
```

The query can be corrected by replacing LIKE with the equals operator.

## Nested Aggregates

Doubly nested aggregates, such as `SUM(COUNT(col1))`, are currently not permitted by the driver.

## Numeric Operators

Numeric Operators are restricted to numeric types. Non-numeric data types are not supported. The following examples show sample queries with their expected error messages.

### Example 1

```
SELECT lvcol FROM mytable WHERE lvcol LIKE 'ab' + 'c'
```

```
[DataDirect][MongoDB JDBC Driver][MongoDB]syntax error or access rule violation: unexpected token: +
```

### Example 2

```
SELECT COUNT FROM mytable WHERE tscol BETWEEN {d '1983-07-04'} + 10 AND {d '1986-01-29'} +3
```

```
[DataDirect][MongoDB JDBC Driver][MongoDB]syntax error or access rule violation: incompatible data types in combination
```

### ON Clause

The ON clause in a join expression must evaluate to a true or false value. A sample query is shown here with the expected error message.

```
SELECT charcol, itable.integercol from {OJ ctable4 LEFT OUTER JOIN itable ON ctable4.intergercol}
```

```
[DataDirect][MongoDB JDBC Driver][MongoDB]syntax error or access rule violation: data type of expression is not boolean
```