

# Connector Appendix

## DataType

DataType is used for defining the data type for a column or filter.

| Type      | Description                                                                         |
|-----------|-------------------------------------------------------------------------------------|
| TEXT      | Text value. A data set should return a Java String for this type.                   |
| NUMERIC   | Numeric value. A data set should return a Java String for this type.                |
| INTEGER   | Integer value. A data set should return a Java Long or Integer for this type.       |
| DATE      | Date value. A data set should return a Java java.sql.Date for this type.            |
| TIMESTAMP | Timestamp value. A data set should return a Java java.sql.Timestamp for this type.  |
| SHORT     | Short integer value. A data set should return a Java Long or Integer for this type. |
| ARRAY     | Array. Currently unsupported.                                                       |
| BOOLEAN   | Boolean value. A data set should return a Java Boolean for this type.               |
| BLOB      | Blob/Binary value. A data set should return a Java byte[] for this type.            |

## FieldType

FieldType is used for defining the field type for a column or filter.

| Type      | Description                                                                                                                                             |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| DIMENSION | Dimensional Value. The report builder will use dimensional filter paradigm for this column, and restrict aggregation types to COUNT and COUNT DISTINCT. |
| METRIC    | Metric/Measure value. The report builder will use metric filter paradigm for this column, and allow all available aggregation types.                    |
| UNKNOWN   | Unknown column type. This should not be used.                                                                                                           |

## AggregationType

AggregationType is used for defining an aggregation that can be applied to a column or filter.

| Type          | Description                                 |
|---------------|---------------------------------------------|
| COUNT         | Count all values of a column.               |
| COUNTDISTINCT | Count all distinct values of a column.      |
| AVG           | Average the values of a column.             |
| MAX           | Return the maximum value of a column.       |
| MIN           | Return the minimum value of a column.       |
| SUM           | Return the sum of the values in the column. |

## FilterOperator

FilterOperator is used for defining operators for a column or filter.

| Type             | Description                                    |
|------------------|------------------------------------------------|
| EQUAL            | Values are equal.                              |
| NOTEQUAL         | Values are not equal.                          |
| INLIST           | Value is within a defined list of values.      |
| NOTINLIST        | Value is not withing a defined list of values. |
| GREATER          | Value is greater than a value.                 |
| GREATEREQUAL     | Value is greater than or equal to a value.     |
| LESS             | Value is less than a value.                    |
| LESSEQUAL        | Value is less than or equal to a value.        |
| BETWEEN          | Value is between two bounds.                   |
| NOTBETWEEN       | Value is not between two bounds.               |
| ISNULL           | Value is null.                                 |
| ISNOTNULL        | Value is not null.                             |
| STARTSWITH       | Text starts with a value.                      |
| NOTSTARTSWITH    | Text does not start with a value.              |
| ENDSWITH         | Text ends with a value.                        |
| NOTENDSWITH      | Text does not end with a value.                |
| CONTAINS         | Text contains a value.                         |
| NOTCONTAINS      | Text does not contain a value.                 |
| ISEMPTYSTRING    | Text is empty string.                          |
| ISNOTEMPTYSTRING | Text is not an empty string.                   |

## Parameter DataType

Parameter DataType is used for defining the data stored for a given meta-data parameter. These are defined as final static integers in the UserInputParameter Class.

| Type          | Description     |
|---------------|-----------------|
| TYPE_UNKNOWN  | Unknown Value.  |
| TYPE_NUMERIC  | Numeric Value.  |
| TYPE_TEXT     | Text Value.     |
| TYPE_PASSWORD | Password Value. |
| TYPE_BOOLEAN  | Boolean Value.  |

## Display Type

DisplayType is used for defining how data will be shown in the connection metadata wizard. These are defined as final static integers in the UserInputParameter Class.

| Type                     | Description                                                                                                                                                                                                                                                                                                                                           |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DISPLAY_TEXT_TINY        | Short text input box.                                                                                                                                                                                                                                                                                                                                 |
| DISPLAY_TEXT_MEDIUM      | Medium length text input box.                                                                                                                                                                                                                                                                                                                         |
| DISPLAY_TEXT_MEDIUM_LONG | Medium-long text input box.                                                                                                                                                                                                                                                                                                                           |
| DISPLAY_TEXT_LONG        | Long text input box.                                                                                                                                                                                                                                                                                                                                  |
| DISPLAY_SELECT           | Select dropdown input box. This type of parameter requires additional options. Options are added to Parameter with addOption(String Key, String Description). The key is stored as the parameter value when selected. The description is shown as a selectable option in a dropdown box.                                                              |
| DISPLAY_RADIO            | Radio selection input box. This type of parameter requires additional options. Additional options are rendered as selectable elements in the UI. Options are added to Parameter with addOption(String Key, String Description). The key is stored as the parameter value when selected. The description is shown next to the selectable radio button. |
| DISPLAY_HIDDEN           | Hidden input box.                                                                                                                                                                                                                                                                                                                                     |
| DISPLAY_BUTTON           | Button. This type of parameter requires additional options. This UI element makes a callback to the buttonPressed() function in the JDBCMetaData Class. Additional option "BUTTONTEXT" is used for setting the text shown on the button.                                                                                                              |
| DISPLAY_STATIC_TEXT      | Displays static text. The long description of the parameter will be displayed as static text.                                                                                                                                                                                                                                                         |
| DISPLAY_URLBUTTON        | Button with a link to an external URL. This type of parameter requires additional options. Additional option "BUTTONTEXT" is used for setting the text shown on the button. Additional option "BUTTONURL" is used for setting the URL that the button links to.                                                                                       |
| DISPLAY_PASSWORD         | Password input box.                                                                                                                                                                                                                                                                                                                                   |

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