

Setting Up Parameters

User input parameters are created within `setupParameters()`, by creating parameter objects and adding them to the advanced function through the `addParameter()` method.

Method	Description
<code>addParameter(Parameter p, boolean suitableForUserPrompt)</code>	Includes the specified parameter into the advanced function. The optional <code>suitableForUserPrompt</code> parameter allows users to specify this parameter value manually like a filter in the report output.

Parameter Methods

Parameter Method	Description
<code>setUniqueKey</code>	Unique text key for this parameter, used to access parameter data and control dependent display.
<code>setDisplayName</code>	Text name.
<code>setDescription</code>	Text description.
<code>setDataType</code>	Type of object this parameter will return. See the data type appendix .
<code>setAcceptsFieldType</code>	Limit the type of fields available to be selected in field selection (TYPE_FIELD_DISPLAY_SELECT) parameters. See the data type appendix .
<code>setDisplayType</code>	Display type of the input parameter. See the display types appendix .
<code>setDefaultValue</code>	Sets the default value for this parameter. Must be of the type specified in <code>setDataType</code> .
<code>addOption</code>	Add possible values to DISPLAY_SELECT, and DISPLAY_RADIO parameters.

Example

The following code creates two parameters. *Column* is a field selection drop-down which allows you to select any Numeric field from the report. Operator is a drop-down menu with 4 values representing basic mathematical operations.

```
protected void setupParameters()
{
    Parameter p = new Parameter();
    p.setUniqueKey("FIELD_SELECTION");
    p.setDisplayName("Column");
    p.setDescription("Compare this numeric field to the selected field");
    p.setDataType(100);
    p.setAcceptsFieldType(TYPE_NUMERIC, true);
    p.setDisplayType(6);
    addParameter(p);

    p = new Parameter();
    p.setUniqueKey("OPERATOR");
    p.setDisplayName("Operator");
    p.setDescription("Select which Operator to apply");
    p.setDataType(2);
    p.setDisplayType(6);
    p.addOption("Add");
    p.addOption("Subtract");
    p.addOption("Divide");
    p.addOption("Multiply");
    addParameter(p);
}
```

Previous topic: [Advanced function creation](#)

Next topic: [Parameter display](#)