pgcode formatter

Beautifies your PLpgSQL and SQL code

Document	pgcode_formatter_manual
Version	0.3 - 2022-01-12
Copyright	© Splendid Data Product Development B.V. 2020 - 2022
License	https://www.gnu.org/licenses/gpl-3.0.en.html

Table of Contents

1. Introduction	3
1.1 Command line	3
1.1.1 Command line options	
1.2 Embedded	
2. Profiles	5
3. Configuration	6
3.1 Options	
3.1.1 General settings	6
3.1.2 query settings	7
3.1.3 Comma separated list settings	8
3.1.4 Function call argument settings	10
3.1.5 Function definition argument settings	12
3.1.6 Table definition settings	15
3.1.7 FROM clause grouping	18
3.1.8 Target list grouping	
3.1.9 Logical operators (WHERE clause)	21
3.1.10 Case operand clause	22
3.1.11 Case when clause	
3.1.12 Declare section and code section	
3.1.13 Default xml file	27
3.1.13 Detault xmi file	

1. Introduction

The pgcode_formatter formats sql and plpgsql code according to a provided configuration xml file.

1.1 Command line

The pgcode_formatter can be used via the command line. The program directory contains a jar file containing the com.splendiddata.plpgsql.code.formatter.PlPgSqlCodeFormatterMain main class and a lib directory containing some libraries that are used by the program.

```
execute
java -jar pgcode_formatter-0.1-SNAPSHOT.jar -help
to see usage information.
```

Example:

```
java -jar pgcode_formatter-0.1-SNAPSHOT.jar --input source.sql --output
formattedSource.sql --config formatterConfig.xml
```

1.1.1 Command line options

? or --help

Shows the command line usage

-c or --config

One of the predefined profile names: profile1, profile2, profile3 and compact or a path to a configuration xml file in which the formatter options are specified.

If not provided, then the configuration saved in the user preferences/registry will be used.

If no configuration is found in the user preferences/registry then the default configuration will be used, see 3.1.13.

-i or --input

The input sql file that is to be formatted.

-o or --output

The file in which to put the formatted output.

```
If not provided, then stdout is assumed.
```

-S, --store-config

The provided configuration file, if any, will be stored in user preferences. This will be used in future calls when neither a profile name nor a configuration xml file is provided

1.2 Embedded

If you want to use the code formatter in an embedded way, then two classes are important: com.splendiddata.pgcode.formatter.FormatConfiguration and com.splendiddata.pgcode.formatter.CodeFormatter.

The FormatConfiguration can be instantiated wit a path to a config file or with an instance of $com.splendiddata.pgcode.formatter.configuration.xml.v1_0.Configuration- or null if you want$ default formatting.

The CodeFomatter needs to be instantiated with an instance of FormatConfiguration. The CodeFormatter.format(String) method will do the trick.

Profiles 2.

The pgcode_formatter provides different "standard" profiles that can be used for formatting the PL/pgSQL source code. Besides that, it offers the possibility to create your own format configuration and use it through the "-c" option.

3. Configuration

The XSD file for the configuration options can be found in the Jar file under META-INF/pgcode_formatter-v1_0.xsd.

A default configuration file exists in the jar file under com/splendiddata/pgcode/formatter/DefaultConfig.xml.

Many options have a "weight" clause. When two options collide, then the option with the highest "weight" value will be used.

3.1 Options

3.1.1 General settings

Option	Description		
Configuration .emptyLine	Indicates what to do with empty lines. Options:		
	Option	Description	
	preserveAll	All white lines are left as they are.	
	preserveOne	Blocks of white lines are reduced to a single white line	
	remove	All white lines are removed	
	Default: preserveOne		
configuration →lineWidth .value	Maximum line width in characters. For tab characters, the amount of space characters that they would represent are counted. Default: 140		
configuration →lineWidth .weight	Defines the importance for the lineWidth setting. Default: 10		
configuration →tabs .tabWidth	The tab interval to be used, specified in number of characters. Default: 4		
configuration →tabs .tabsOrSpaces	Use tab characters or spaces. Possible values: tabs, spaces Default: spaces		

Option	Description
Configuration →indent .indentWidth	Indentation size Default: 4
Configuration →indent .tabsOrSpaces	Use tab character or spaces of indenting. Default: spaces
Configuration →indent .indentInnerFunction	Indicates whether a nested function (create function enclosed in another create function or inside an anonymous block) should be indented or not. Default: false
configuration →letterCaseKeywords	Converts the postgres keywords to upper/lower case or keeps it unchanged. Possible values: lowercase, uppercase, unchanged Default: unchanged
configuration →letterCaseFunctions	Converts the postgres built-in functions to upper/lower case or keeps it unchanged. Possible values: lowercase, uppercase, unchanged Default: unchanged

3.1.2 query settings

Option	Description	
configuration →queryConfig .indent	start of the query?	
Indent	Default: false	
	Example:	
	true	false
	SELECT the, target, list FROM some_table WHERE where condition	SELECT the, target, list FROM some_table WHERE where condition

Option	Description	
configuration →queryConfig	Do the major keywords in a query get a line of their own?	
.majorKeywordsOnSeparateLine	The major keywords are "select", "from", "where", "group by", "order by" etc.	
	Possible values: true, false	
	Default: false	
	Example:	
	true	false
	SELECT the, target, list FROM some table WHERE the where condition	SELECT the, target, list FROM some_table WHERE the where condition
configuration →queryConfig →maxSingleLineQuery .value	When a query does not exceed this number of characters, it will be written on a single line. Otherwise it will be split up by major keywords and spread over several lines. Default: 60	
configuration →queryConfig →maxSingleLineQuery .weight	Determines the importance of the maxSingleLineQuery when for example competing with the configuration→lineWidth setting. Default: 5	

Comma separated list settings 3.1.3

Settings are used for a comma separated list of no specific settings are set.

Option	Description	
configuration →commaSeparatedListGrouping →maxSingleLineLength .value	When a comma separated list (for example is select statement) does not exceed this number of characters, it will be written on a single line. Otherwise it will be split-up over several lines. Default: 80	
configuration →commaSeparatedListGrouping →maxSingleLineLength .weight	Importance of this setting over conflicting options (if any). Default: 5	

Option	Description	
configuration →commaSeparatedListGrouping .multilineOpeningParenBeforeArgument	When a comma separated list is split-up over several lines, will the opening parenthesis be written before the first argument (true) or will it be written after the function name (false).	
	Possible values: true, false	
	Default: true	
configuration →commaSeparatedListGrouping .multilineClosingParenOnNewLine	When a comma separated list is split-up over several lines, will the closing parenthesis be written on a new line (true) or will it be written directly after the last argument (false).	
	Possible values: true, false	
	Default: false	
configuration →commaSeparatedListGrouping →maxArgumentsPerGroup	When a comma separated list is split-up over several lines, then how many arguments are to be written per line.	
.value	Default: 10	
configuration →commaSeparatedListGrouping →maxArgumentsPerGroup	The importance of this setting for example compared with the maxLengthOfGroup setting. Default: 5	
.weight		
configuration →commaSeparatedListGrouping →maxLengthOfGroup	When a comma separated list is split-up over several lines, then how long can a group of arguments on a single line be (in characters).	
.value	Default: 50	
configuration →commaSeparatedListGrouping →maxLengthOfGroup	The importance of this setting for example compared with the maxArgumentsPerGroup setting.	
.weight	Default: 10	
configuration →commaSeparatedListGrouping →indent	When a comma separated list is split-up over several lines, then how will the arguments in following lines be indented.	
.value	Possible values: underFirstArgument, indented, doubleIndented	
	Default: underFirstArgument	
configuration →commaSeparatedListGrouping	The importance of this setting, for example when competing with the max line length.	
→indent.weight	Default: 10	

Option	Description
configuration →commaSeparatedListGrouping →commaBeforeOrAfter	If the comma separated list is to be split up over several lines, is the comma to be placed at the end of the previous line or at the beginning of the next line.
	The comma at the end of the line looks more "natural" than a comma at the begin of a line as that is the normal way of writing in texts. But especially in complex constructs, the comma at the beginning of the line appears to be a lot less error-prone. Possible values: before, after Default: before

Function call argument settings 3.1.4

Option	Description
configuration →functionCallArgumentGrouping →maxSingleLineLength .value	When a function call does not exceed this number of characters, it will be written on a single line. Otherwise it will be split-up over several lines. Default: 80
configuration →functionCallArgumentGrouping →maxSingleLineLength .weight	Importance of this setting over conflicting options (if any). Default: 5
configuration →functionCallArgumentGrouping .multilineOpeningParenBeforeArgument	When a function call is split-up over several lines, will the opening parenthesis be written before the first argument (true) or will it be written after the function name (false). Possible values: true, false Default: true
configuration →functionCallArgumentGrouping .multilineClosingParenOnNewLine	When a function call is split-up over several lines, will the closing parenthesis be written on a new line (true) or will it be written directly after the last argument (false). Possible values: true, false Default: false

Option	Description	
configuration →functionCallArgumentGrouping →maxArgumentsPerGroup .value	When a function call is split-up over several lines, then how many arguments are to be written per line	
.value	Default: 10	
configuration →functionCallArgumentGrouping →maxArgumentsPerGroup .weight	The importance of this setting for example compared with the maxLengthOfGroup setting Default: 5	
configuration →functionCallArgumentGrouping →maxLengthOfGroup .value	When a function call is split-up over several lines, then how long can a group of arguments on a single line be (in characters).	
	Default: 50	
configuration →functionCallArgumentGrouping →maxLengthOfGroup	The importance of this setting for example compared with the maxArgumentsPerGroup setting.	
.weight	Default: 10	
configuration →functionCallArgumentGrouping →indent	When a function call is split-up over several lines, then how will the arguments in following lines be indented.	
.value	Possible values: underFirstArgument, indented, doubleIndented	
	Default: underFirstArgument	
configuration →functionCallArgumentGrouping	The importance of this setting, for example when competing with the max line length.	
→indent .weight	Default: 10	
configuration →functionCallArgumentGrouping →commaBeforeOrAfter	If the comma separated list of function call arguments is to be split up over several lines, is the comma to be placed at the end of the previous line or at the beginning of the next line.	
	The comma at the end of the line looks more "natural" than a comma at the begin of a line as that is the normal way of writing in texts. But especially in complex constructs, the comma at the beginning of the line appears to be a lot less error-prone.	
	Possible values: before, after	
	Default: before	

3.1.5 Function definition argument settings

Option	Description		
configuration →functionDefinitionArgumentGrouping .defaultIndicator	In a function definition, arguments can have default values. A default value can be defined using an equals sign (=) or the word "default".		
	Option	Description	
	alterToDefault	The equals sign will be altered to the word "default".	
	alterToEqualsSign	The word "default" will be altered to "=".	
	asIs	Nothing will change.	
	Default: asIs		
configuration →functionDefinitionArgumentGrouping →argumentGrouping →maxSingleLineLength	When function definition arguments do not exceed this number of characters, they will be written on a single line. Otherwise they will be split-up over several lines.		
.value	Default: 80		
configuration → functionDefinitionArgumentGrouping	Importance of this setting over conflicting options (if any).		
→argumentGrouping→maxSingleLineLength.weight	Default: 5		
configuration → functionDefinitionArgumentGrouping →argumentGrouping .multilineOpeningParenBeforeArgument	When function definition arguments are split- up over several lines, will the opening parenthesis be written before the first argument (true) or will it be written after the function name (false).		
	Possible values: tru	es: true, false	
	Default: true		
configuration → functionDefinitionArgumentGrouping →argumentGrouping .multilineClosingParenOnNewLine	When function definition arguments are split- up over several lines, will the closing parenthesis be written on a new line (true) or will it be written directly after the last argument (false).		
	Possible values: true, false		
	Default: false		

Option	Description
configuration → functionDefinitionArgumentGrouping →argumentGrouping →maxArgumentsPerGroup .value	When function definition arguments are split- up over several lines, then how many arguments are to be written per line. Default: 10
configuration → functionDefinitionArgumentGrouping →argumentGrouping →maxArgumentsPerGroup .weight	The importance of this setting for example compared with the maxLengthOfGroup setting. Default: 5
configuration → functionDefinitionArgumentGrouping →argumentGrouping →maxLengthOfGroup .value	When function definition arguments are split- up over several lines, then how long can a group of arguments on a single line be (in characters). Default: 50
configuration → functionDefinitionArgumentGrouping →argumentGrouping →maxLengthOfGroup .weight	The importance of this setting for example compared with the maxArgumentsPerGroup setting. Default: 10
configuration → functionDefinitionArgumentGrouping →indent .value	When function definition arguments are split- up over several lines, then how will the arguments in following lines be indented. Possible values: underFirstArgument, indented, doubleIndented Default: underFirstArgument
configuration → functionDefinitionArgumentGrouping →argumentGrouping →indent .weight	The importance of this setting, for example when competing with the max line length. Default: 10

Option	Description
configuration → functionDefinitionArgumentGrouping →argumentGrouping →commaBeforeOrAfter	If the comma separated list of function definition arguments is to be split up over several lines, is the comma to be placed at the end of the previous line or at the beginning of the next line.
	The comma at the end of the line looks more "natural" than a comma at the begin of a line as that is the normal way of writing in texts. But especially in complex constructs, the comma at the beginning of the line appears to be a lot less error-prone.
	Possible values: before, after
	Default: before
configuration	How should the argument name be aligned?
→ functionDefinitionArgumentGrouping→argumentName.alignment	Possible values : verticallyAligned, subsequent, atHorizontalPosition
	Default : verticallyAligned
configuration → functionDefinitionArgumentGrouping	The minimum position where the argument name can be placed.
→argumentName .minPosition	Default: 0
configuration → functionDefinitionArgumentGrouping	The maximum position where the argument name can be placed.
→argumentName .maxPosition	Default : 9
configuration	How should the data type be aligned?
→ functionDefinitionArgumentGrouping→dataType.alignment	Possible values : verticallyAligned, subsequent, atHorizontalPosition
	Default : verticallyAligned
configuration → functionDefinitionArgumentGrouping	The minimum position where the data type can be placed.
→dataType .minPosition	Default : 5
configuration → functionDefinitionArgumentGrouping	The maximum position where the data type can be placed
→ functionDefinitionArgumentGrouping →dataType .maxPosition	Default : 40

Option	Description
configuration → functionDefinitionArgumentGrouping →defaultValue .alignment	How should the default expression be aligned? Possible values: verticallyAligned, subsequent, atHorizontalPosition Default: verticallyAligned
configuration → functionDefinitionArgumentGrouping →defaultValue .minPosition	The minimum position where the default value/expression can be placed. Default: 10
configuration → functionDefinitionArgumentGrouping →defaultValue .maxPosition	The maximum position where the default value/expression can be placed. Default: 60

3.1.6 Table definition settings

Option	Description
configuration →tableDefinition →argumentGrouping →maxSingleLineLength.value	When a table definition does not exceed this number of characters, it will be written on a single line. Otherwise it will be split-up over several lines. Default: 80
configuration →tableDefinition →argumentGrouping →maxSingleLineLength .weight	Importance of this setting over conflicting options (if any). Default: 1
configuration → tableDefinition →argumentGrouping .multilineOpeningParenBeforeArgument	When table definition is split-up over several lines, will the opening parenthesis be written before the first column definition (true) or will it be written after the function name (false). Possible values: true, false Default: true
configuration →tableDefinition →argumentGrouping .multilineClosingParenOnNewLine	When a table definition is split-up over several lines, will the closing parenthesis be written on a new line (true) or will it be written directly after the last column definition (false). Possible values: true, false Default: false

Option	Description
configuration →tableDefinition →argumentGrouping →maxArgumentsPerGroup .value	When a table definition is split-up over several lines, then how many column definitions are to be written per line. Default: 1
configuration →tableDefinition →argumentGrouping →maxArgumentsPerGroup .weight	The importance of this setting for example compared with the maxLengthOfGroup setting. Default: 10
configuration →tableDefinition →argumentGrouping →maxLengthOfGroup .value	When a function definition is split-up over several lines, then how long can a group of column definitions on a single line be (in characters). Default: 50
configuration →tableDefinition →argumentGrouping →maxLengthOfGroup .weight	The importance of this setting for example compared with the maxArgumentsPerGroup setting. Default: 10
configuration →tableDefinition →indent.value	When a table definition is split-up over several lines, then how will the column definitions/constraints in following lines be indented. Possible values: underFirstArgument, indented, doubleIndented Default: underFirstArgument
configuration →tableDefinition →argumentGrouping →indent .weight	The importance of this setting, for example when competing with the max line length. Default: 1

Option	Description
configuration →tableDefinition →argumentGrouping →commaBeforeOrAfter	If the comma separated list of table column definitions/constraints is to be split up over several lines, is the comma to be placed at the end of the previous line or at the beginning of the next line.
	The comma at the end of the line looks more "natural" than a comma at the begin of a line as that is the normal way of writing in texts. But especially in complex constructs, the comma at the beginning of the line appears to be a lot less error-prone.
	Possible values: before, after
	Default: before
configuration	How should the data type be aligned?
→tableDefinition→dataType.alignment	Relative position of the data type horizontally to its neighbouring items and vertically to data types
	Possible values : verticallyAligned, subsequent, atHorizontalPosition
	Default : verticallyAligned
configuration →tableDefinition	The minimum position where the data type can be placed.
→dataType .minPosition	Default : 5
configuration →tableDefinition	The maximum position where the data type can be placed.
→dataType .maxPosition	Default: 40
configuration	How should the column constraint be aligned?
→tableDefinition→columnConstraint.alignment	Relative position of the column constraint horizontally to its neighbouring items and vertically to column constraint
	Possible values : verticallyAligned, subsequent, atHorizontalPosition
	Default : verticallyAligned
configuration →tableDefinition	The minimum position where the column constraint can be placed?
→columnConstraint .minPosition	Default: 10

Option	Description
configuration →tableDefinition →columnConstraint .maxPosition	The maximum position where the data type can be placed. Default: 60

FROM clause grouping 3.1.7

Option	Description
configuration →fromItemGrouping →maxSingleLineLength .value	When a FROM clause does not exceed this number of characters, it will be written on a single line. Otherwise it will be split-up over several lines. Default: 100
configuration →fromItemGrouping →maxSingleLineLength .weight	Importance of this setting over conflicting options (if any). Default: 10
configuration →fromItemGrouping .multilineOpeningParenBeforeArgu ment	When a FROM clause is split-up over several lines, will the opening parenthesis be written before the first argument (true) or will it be written after the function name (false). Possible values: true, false
	Default: true
configuration →fromItemGrouping .multilineClosingParenOnNewLine	When a FROM clause is split-up over several lines, will the closing parenthesis be written on a new line (true) or will it be written directly after the last argument (false).
	Possible values: true, false
	Default: false
configuration →fromItemGrouping →aliasAlignment.alignment	How aliases in a FROM clause should be aligned? Possible values: verticallyAligned, atHorizontalPosition, subsequent Default: verticallyAligned
configuration →fromItemGrouping →aliasAlignment .minPosition	The minimum position where the alias in a FROM clause can be placed. Default: 10

Option	Description
configuration →fromItemGrouping →aliasAlignment .maxPosition	The maximum position where the alias in a FROM clause can be placed. Default: 60
configuration →fromItemGrouping →comma	If the FROM clause is to be split up over several lines, is the comma to be placed at the end of the previous line or at the beginning of the next line.
	The comma at the end of the line looks more "natural" than a comma at the begin of a line as that is the normal way of writing in texts. But especially in complex constructs, the comma at the beginning of the line appears to be a lot less error-prone.
	Possible values: before, after Default: before

Target list grouping 3.1.8

Option	Description
configuration →targetListGrouping →maxSingleLineLength .value	When a target list (for example is select statement) does not exceed this number of characters, it will be written on a single line. Otherwise it will be split-up over several lines. Default: 80
configuration →targetListGrouping →maxSingleLineLength .weight	Importance of this setting over conflicting options (if any). Default: 5
configuration →targetListGrouping .multilineOpeningParenBeforeArgument	When a target list is split-up over several lines, will the opening parenthesis be written before the first argument (true) or will it be written after the function name (false). Possible values: true, false Default: true
configuration →targetListGrouping .multilineClosingParenOnNewLine	When a target list is split-up over several lines, will the closing parenthesis be written on a new line (true) or will it be written directly after the last argument (false). Possible values: true, false Default: false
configuration →targetListGrouping →maxArgumentsPerGroup .value	When a target list is split-up over several lines, then how many arguments are to be written per line. Default: 10
configuration →targetListGrouping →maxArgumentsPerGroup .weight	The importance of this setting for example compared with the maxLengthOfGroup setting. Default: 5
configuration →targetListGrouping →maxLengthOfGroup .value	When a target list is split-up over several lines, then how long can a group of arguments on a single line be (in characters). Default: 50

Option	Description
configuration →targetListGrouping →maxLengthOfGroup.weight	The importance of this setting for example compared with the maxArgumentsPerGroup setting.
	Default: 10
Configuration →targetListGrouping →indent .value	When a target list is split-up over several lines, then how will the arguments in following lines be indented. Possible values: underFirstArgument, indented, doubleIndented
	Default: underFirstArgument
configuration →targetListGrouping →indent .weight	The importance of this setting, for example when competing with the max line length. Default: 10
configuration →targetListGrouping →commaBeforeOrAfter	If the target list is to be split up over several lines, is the comma to be placed at the end of the previous line or at the beginning of the next line.
	The comma at the end of the line looks more "natural" than a comma at the begin of a line as that is the normal way of writing in texts. But especially in complex constructs, the comma at the beginning of the line appears to be a lot less error-prone.
	Possible values: before, after Default: before

Logical operators (WHERE clause) 3.1.9

configuration →logicalOperatorsIndent.indent	When a WHERE clause is split-up over several lines and this clause contains logical operantors AND/OR, then how will the operands in following lines be indented.
	Possible values: underFirstArgument, indented, doubleIndented Default: underFirstArgument

Case operand clause 3.1.10

The caseOperand setting are for case clauses whereby the case keyword is immediately followed by an operand, so "CASE < some_operand > WHEN < another_operand > THEN ...".

Option	Description
configuration →caseOperand →maxSingleLineClause .value	When the total length of a case clause does not exceed this number of characters, it will be written on a single line. Default: 60
configuration →caseOperand →maxSingleLineClause .weight	Importance of this setting compared with for example the max line width or the maxSingleLineQuery setting. Default: 5
configuration →caseOperand →whenPosition	In a "case operand" clause that is split-up over several lines, where is the first when clause to be positioned (following when clauses will be positioned under the first).
.value	Possible values: whenAfterCase, whenUnderCase, whenIndented
	Default: whenUnderCase
configuration →caseOperand →whenPosition .weight	Importance of this setting over for example the max line length. Default: 10
configuration →caseOperand →thenPosition .value	In a "case operand" clause that is split-up over several lines, where is the then clause to be positioned. Possible values: thenAfterWhenDirectly, thenAfterWhenAligned, thenUnderWhen, thenIndented Default: thenAfterWhenAligned
configuration →caseOperand →thenPosition .weight	Importance of this setting over for example the max line length. Default: 10
configuration →caseOperand →thenPosition .minPosition	The minimum position where THEN can be placed if the thenPosition value is "thenAfterWhenAligned". Default: 7
configuration →caseOperand →thenPosition .maxPosition	The maximum position where THEN can be placed if the thenPosition value is "thenAfterWhenAligned".

Option	Description
configuration →caseOperand →thenPosition .fallbackPosition	The position of the THEN clause if the thenPosition is "thenAfterWhenDirectly" or "thenAfterWhenAligned" would lead to ugly results.
configuration →caseOperand .elsePosition	In a "case operand" clause that is split-up over several lines, where is the else clause to be positioned. Possible values: elseUnderWhen, elseUnderThen Default: elseUnderThen
configuration →caseOperand .endPosition	In a "case operand" clause that is split-up over several lines, where is the end keyword to be positioned. Possible values: endUnderCase, endUnderWhen, endAtSameLine Default: endUnderCase

Case when clause 3.1.11

The caseWhen setting are for case clauses whereby the case keyword is immediately followed by an operand, so "CASE WHEN < some_condition > THEN ...".

Option	Description
configuration →caseWhen →maxSingleLineClause .value	When the total length of a case clause does not exceed this number of characters, it will be written on a single line. Default: 60
configuration →caseWhen →maxSingleLineClause .weight	Importance of this setting compared with for example the max line width or the maxSingleLineQuery setting. Default: 5
configuration →caseWhen →whenPosition .value	In a "case operand" clause that is split-up over several lines, where is the first when clause to be positioned (following when clauses will be positioned under the first). Possible values: whenAfterCase, whenUnderCase, whenIndented Default: whenAfterCase
configuration →caseWhen →whenPosition .weight	Importance of this setting over for example the max line length. Default: 10
configuration →caseWhen →thenPosition .value	In a "case operand" clause that is split-up over several lines, where is the then clause to be positioned. Possible values: thenAfterWhenDirectly, thenAfterWhenAligned, thenUnderWhen, thenIndented Default: thenAfterWhenAligned
configuration →caseWhen →thenPosition .weight	Importance of this setting over for example the max line length Default: 10
configuration →caseWhen →thenPosition .minPosition	The minimum position where THEN can be placed if the thenPosition value is "thenAfterWhenAligned". Default: 7
configuration →caseWhen →thenPosition	The maximum position where THEN can be placed if the thenPosition value is "thenAfterWhenAligned".

Option	Description
.maxPosition	
configuration →caseWhen →thenPosition .fallbackPosition	The position of the THEN clause if the thenPosition is "thenAfterWhenDirectly" or "thenAfterWhenAligned" would lead to ugly results.
configuration →caseWhen .elsePosition	In a "case operand" clause that is split-up over several lines, where is the else clause to be positioned. Possible values: elseUnderWhen, elseUnderThen Default: elseUnderThen
configuration →caseWhen .endPosition	In a "case operand" clause that is split-up over several lines, where is the end keyword to be positioned. Possible values: endUnderCase, endUnderWhen, endAtSameLine Default: endUnderCase

3.1.12 Declare section and code section

Option	Description
Configuration →languagePlpgsql →declareSection →dataTypePosition .alignment	How should the data type in a declare section be aligned? Relative position of the data type horizontally to its neighbouring items and vertically to data types Possible values: subsequent, atHorizontalPosition, verticallyAligned Default: subsequent
Configuration →languagePlpgsql →declareSection →dataTypePosition .minPosition	The minimum position where the data type in a declare section can be placed. Default: 3
Configuration →languagePlpgsql →declareSection →dataTypePosition .maxPosition	The maximum position where the data type in a declare section can be placed. Default: 3
Configuration →languagePlpgsql →declareSection →dataTypePosition .constantPosition	The position of the keyword "constant" in a declare section. Possible values: subsequent, alignedBeforeDataType, alignedWithDataType Default: subsequent
Configuration →languagePlpgsql →codeSection →ifStatement.then	The position of the keyword "then" in an if statement. Possible values: afterCondition, onNewLine, singleLineAfterMultiLineUnder Default: afterCondition
Configuration →languagePlpgsql →codeSection →ifStatement .conditionIndent	The position of the condition in an if statement. Possible values: underFirstArgument, indented, doubleIndented Default: indented

Option	Description
Configuration →languagePlpgsql →codeSection →forStatement.loop	The position of the code in a for loop. Possible values : afterCondition, onNewLine, singleLineAfterMultiLineUnder
	Default : singleLineAfterMultiLineUnder

Default xml file 3.1.13

Below you can find the default config xml file. This is the default configuration used for formatting when no profile or config xml file is provided and no configuration file could be found in the preferences/registry.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:configuration</pre>
xmlns:ns2="http://www.splendiddata.com/pgcode formatter/1.0/"
emptyLine="preserve0ne">
    <lineWidth value="140" weight="10.0"/>
    <tabs tabWidth="4" tabsOrSpaces="spaces"/>
    <indent indentWidth="4" tabs0rSpaces="spaces"/>
    <queryConfig majorKeywordsOnSeparateLine="false" indent="false">
       <maxSingleLineQuery value="60" weight="5.0"/>
    </gueryConfig>
    <commaSeparatedListGrouping multilineOpeningParenBeforeArgument="true"</pre>
multilineClosingParenOnNewLine="false">
       <maxSingleLineLength value="80" weight="5.0"/>
       <maxArgumentsPerGroup value="10" weight="5.0"/>
       <maxLengthOfGroup value="50" weight="10.0"/>
       <indent value="underFirstArgument" weight="10.0"/>
       <commaBeforeOrAfter>before</commaBeforeOrAfter>
    </commaSeparatedListGrouping>
    <functionCallArgumentGrouping multilineOpeningParenBeforeArgument="true"</pre>
multilineClosingParenOnNewLine="false">
       <maxSingleLineLength value="80" weight="5.0"/>
       <maxArgumentsPerGroup value="10" weight="5.0"/>
       <maxLengthOfGroup value="50" weight="10.0"/>
       <indent value="underFirstArgument" weight="10.0"/>
       <commaBeforeOrAfter>before</commaBeforeOrAfter>
    </functionCallArgumentGrouping>
    <functionDefinitionArgumentGrouping defaultIndicator="asIs">
       <argumentGrouping multilineOpeningParenBeforeArgument="true"</pre>
multilineClosingParenOnNewLine="false">
           <maxSingleLineLength value="80" weight="5.0"/>
           <maxArgumentsPerGroup value="10" weight="5.0"/>
           <maxLengthOfGroup value="50" weight="10.0"/>
           <indent value="underFirstArgument" weight="10.0"/>
           <commaBeforeOrAfter>before</commaBeforeOrAfter>
       </argumentGrouping>
       <argumentName alignment="verticallyAligned" minPosition="0"</pre>
maxPosition="9"/>
       <dataType alignment="verticallyAligned" minPosition="5"</pre>
maxPosition="40"/>
       <defaultValue alignment="verticallyAligned" minPosition="10"</pre>
maxPosition="60"/>
    </functionDefinitionArgumentGrouping>
    <tableDefinition>
       <argumentGrouping multilineOpeningParenBeforeArgument="true"</pre>
multilineClosingParenOnNewLine="false">
           <maxSingleLineLength value="80" weight="1.0"/>
           <maxArgumentsPerGroup value="1" weight="10.0"/>
```

```
<maxLengthOfGroup value="50" weight="1.0"/>
           <indent value="doubleIndented" weight="10.0"/>
           <commaBeforeOrAfter>before</commaBeforeOrAfter>
       </argumentGrouping>
       <dataType alignment="verticallyAligned" minPosition="5"</pre>
maxPosition="40"/>
       <columnContraint alignment="verticallyAligned" minPosition="10"</pre>
maxPosition="60"/>
    </tableDefinition>
    <fromItemGrouping comma="before"</pre>
multilineOpeningParenBeforeArgument="true"
multilineClosingParenOnNewLine="false">
       <maxSingleLineLength value="100" weight="10.0"/>
       <aliasAlignment alignment="verticallyAligned" minPosition="10"</pre>
maxPosition="60"/>
    </fromItemGrouping>
    <targetListGrouping multilineOpeningParenBeforeArgument="true"
multilineClosingParenOnNewLine="false">
       <maxSingleLineLength value="80" weight="5.0"/>
       <maxArgumentsPerGroup value="10" weight="5.0"/>
       <maxLengthOfGroup value="50" weight="10.0"/>
       <indent value="underFirstArgument" weight="10.0"/>
       <commaBeforeOrAfter>before</commaBeforeOrAfter>
    </targetListGrouping>
    <caseOperand elsePosition="elseUnderThen" endPosition="endUnderCase">
       <maxSingleLineClause value="60" weight="5.0"/>
       <whenPosition value="whenUnderCase" weight="10.0"/>
       <thenPosition value="thenAfterWhenAligned" weight="10.0"/>
    </caseOperand>
    <caseWhen elsePosition="elseUnderThen" endPosition="endUnderCase">
       <maxSingleLineClause value="60" weight="5.0"/>
       <whenPosition value="whenAfterCase" weight="10.0"/>
       <thenPosition value="thenAfterWhenAligned" weight="10.0"/>
    </caseWhen>
    <le>tterCaseKeywords>unchanged</letterCaseKeywords></le>
    <letterCaseFunctions>unchanged</letterCaseFunctions>
    <languagePlpgsql>
       <declareSection>
           <dataTypePosition alignment="verticallyAligned" minPosition="30"</pre>
maxPosition="60" constantPosition="alignedBeforeDataType"/>
       </declareSection>
       <codeSection>
           <ifStatement then="singleLineAfterMultiLineUnder"</pre>
conditionIndent="indented"/>
           <forStatement loop="singleLineAfterMultiLineUnder"/>
       </codeSection>
    </languagePlpgsgl>
</ns2:configuration>
```