QC Master procedure

Created by Mike Timchenko Last updated: Jan 07, 2022 by Lakshman Kammili • 3 min read • └─ 12 people viewed

In case a lot of tests there is an opportunity to save all tests parameters in rule-based tables and run the master procedure as a set of tests.

Clusters: < Cluster Name Generic>

Schema: QC

Procedure name: proc_qc_master

Parameters:

Parameter name	Datatype	Description	
p_test_group	varchar(200)	Name of a group of tests	
p_test_time	timestamp	{{now}}	
p_order_run	varchar(50)	{{CurrentOrderRunId}}	

Rule-Based Tables

primary_key_test_set

test_group	varchar(200)	schema_name	varchar(100)	
test_description	varchar(1000)	table_name	varchar(100)	
test_action	varchar(100)	column_names	varchar(200)	
		skip_errors	int	

uniqueness_test_set

test_group	varchar(200)	schema_name	varchar(100)	
test_description	varchar(1000)	table_name	varchar(100)	
test_action	varchar(100)	column_names	varchar(200)	
		skip_errors	int	

not_null_test_set

test_group	varchar(200)	schema_name	varchar(100)	
test_description	varchar(1000)	table_name	varchar(100)	
test_action	varchar(100)	column_names	varchar(200)	
		skip_errors	int	

allowed_increment_test_set

test_group	varchar(200)	schema_name	varchar(100)	delta_record_count	int
test_description	varchar(1000)	table_name	varchar(100)		
test_action	varchar(100)				

data_match_test_set

test_group	varchar(200)	schema_name	varchar(100)	match_schema_name	varchar(100)
test_description	varchar(1000)	table_name	varchar(100)	match_table_name	varchar(100)
test_action	varchar(100)	column_names	varchar(200)	match_column_names	varchar(200)
		skip_errors	int	mode	varchar(20)

prior_match_test_set

test_group	varchar(200)	schema_name	varchar(100)	schema_prior	varchar(100)
test_description	varchar(1000)	table_name	varchar(100)	mode	varchar(20)
test_action	varchar(100)	column_names	varchar(200)		
		skip_errors	int		

value_match_test_set

test_group	varchar(200)	schema_name	varchar(100)	value_set	varchar(500)
test_description	varchar(1000)	table_name	varchar(100)	mode	varchar(20)
test_action	varchar(100)	column_names	varchar(200)		
		skip_errors	int		

window_match_test_set

test_group	varchar(200)	schema_name	varchar(100)	date_column	varchar(100)
test_description	varchar(1000)	table_name	varchar(100)	window_days	int
test_action	varchar(100)	column_names	varchar(200)	mode	varchar(20)
		skip_errors	int		

$condition_check_test_set$

test_group	varchar(200)	schema_name	varchar(100)	condition	varchar(1000)
test_description	varchar(1000)	table_name	varchar(100)		
test_action	varchar(100)	column_names	varchar(200)		
		skip_errors	int		

aggregate_match_test_set

test_group	varchar(200)	schema_name	varchar(100)	match_schema_name	varchar(100)
test_description	varchar(1000)	table_name	varchar(100)	match_table_name	varchar(100)
test_action	varchar(100)	column_names	varchar(200)	match_column_names	varchar(200)
		skip_errors	int	match_qroupby_names	varchar(200)
		groupby_names	varchar(200)	match_having_condition	varchar(500)
		having_condition	varchar(500)	mode	varchar(20)

custom_query_test_set

test_group	varchar(200)	schema_name	varchar(100)	query	varchar(4000)
test_description	varchar(1000)	table_name	varchar(100)		
test_action	varchar(100)	column_names	varchar(200)		
		skip_errors	int		

Example of usage

1. Create a new step to call master qc procedures in a new or existing node. The example of the way to call procedures:

```
call\ qc.proc\_qc\_master('car\_t\_auto\_qc','\{\{now\}\}','\{\{CurrentOrderRunld\}\}');
```

2. Create a step to get all result messages with result code = -1 and save it into a jinja variable

```
select listagg(test_type||': '||result_message,' ') within group (order by starttime) from qc.test_results where order_run = '{{CurrentOrderRunId}}' and result_code = -1;
```

Also, value of a ninja-variable now and name of a group of test could be used to identify recent test results.

- 3. Create a step to get all result messages with result code = 0 and save it into a jinja variable
- 4. Create tests to check rows with result_code = 0 or -1

Result of usage

1. Run a variation and open results. It contains messages about all errors and warnings.

2. Use DataGrip to access results and examples of wrong data in the table

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