# Integration Tests for Data Quality Checker

This document contains integration tests relating to the Data Quality Checker spark application.

## Test100: Add Spark Job to Nifi template

This test is to add the Data Quality Checker to the standard-ingest template.

### Steps:

1. Follow the **Adding Spark Job to standard-ingest** within the README.md
2. Create a new feed which utilizes the standard-ingest template
3. Execute the feed through kylo

### Expected outcome:

* Feed should run without any errors
* No checks should be executed since no rules are active

## Test200: Add Rules to Spark Job

This test is to add existing rules to the Data Quality Checker

### Steps:

1. Follow the **Adding Spark Job to standard-ingest** within the README.md
2. Create a new feed which utilizes the standard-ingest template
3. Follow the **Activate Rules** within the README.md to activate rules
4. For each of the available rules within the README.md, do the following
   1. Activate the rule following the **Activate Rules** within the README.md
   2. Execute the feed through kylo

### Expected outcome:

* Feed should run without any errors for each rule that is added
* The default values for each rule should be leveraged
* Additional rows should be added to the <feed>\_dataquality table

## Test201: Modify default values for rules

This test is to modify the default values of the existing rules for the Data Quality Checker

### Steps:

1. Follow the steps in Test200 to add rules
2. Modify the default attributes used by the various existing rules. Use the **Optional Nifi Attributes** within the README.md to know what attributes to modify

### Expected outcome:

* For each rule, the feed should pass or fail properly based on the nifi attribute value
* Additional rows should be added to the <feed>\_dataquality table for each run with the proper output captured

## Test300: Add New Rule to Spark Job

This test is to add a new rule to the Data Quality Checker

### Steps:

1. Follow **Adding a New Rule** within the README.md to add a new rule to the code base
2. Ensure that the new jars have been properly deployed
3. Create a new feed which utilizes the standard-ingest template
4. Update the nifi attributes appropriately
5. Execute the feed

### Expected outcome:

* Feed should pass or fail depending on the new rule
* Additional rows should be added to the <feed>\_dataquality hive table