EDP Auto Tester – Column Level Checks

These are two 2 proposed configuration setup for the future column level checks.

1. Add two new columns (for source and target each) for each column level check in the protocol file.
2. Create a single JSON configuration file all the future column level checks.

This JSON configuration file is structured to validate data in source and target tables, with specific checks on value ranges, column lengths, date formats, future dates, and null values. Each check type under the source and target sections is designed to enforce certain data quality rules.

The JSON configuration file will be configured in the project specific folder within the volumes and the name of the file will be added to the protocol file as a new column value.

## Structure Overview

The JSON has two main keys:

* **source**: Contains validation configurations for the source table.
* **target**: Contains validation configurations for the target table.

Each of these sections has the following possible validation checks:

* Value\_Range\_Check
* Column\_Length\_Check
* Date\_Format\_Check
* Future\_Date\_Check
* Null\_Column\_Check

The configuration file will contain the information about each column level check in the following manner.

1. Not\_Null\_Empty\_Value\_Check - Lists columns that should be checked for null values.
2. Value\_Range\_Check – Defines acceptable ranges or lists of valid values for specific columns.
3. Column\_Length\_Check - Specifies the expected length for columns.
4. Date\_Format\_Check - Defines the expected date format for columns containing date values.
5. Future\_Date\_Check - Indicates if a column should be checked to ensure that values do not fall in the future date.

The JSON configuration file structured will look like this –

{

"source":

{

"Null\_Column\_Check": ["column1", "column2"],

"Value\_Range\_Check": {

"column1": {"accepted\_range": {"min": 1, "max": 100}},

"column2": {"accepted\_range": ["A", "B", "C", "D"]},

"column3": {"accepted\_range": {"min": 0, "max": 50}}

},

"Column\_Length\_Check": {

"column4": {"length": 10},

"column5": {"length": 15}

},

"Date\_Format\_Check": {

"column6": {"date\_format": "YYYY-MM-DD"},

"column7": {"date\_format": "DD/MM/YYYY"}

},

"Future\_Date\_Check": ["column8","column9"]

},

"target":

{

"Null\_Column\_Check": ["columnA", "columnB"],

"Value\_Range\_Check": {

"column1": {"accepted\_range": {"min": 1, "max": 100}},

"column2": {"accepted\_range": ["X", "Y", "Z"]},

"column3": {"accepted\_range": {"min": 0, "max": 50}}

},

"Column\_Length\_Check": {

"column4": {"length": 10},

"column5": {"length": 20}

},

"Date\_Format\_Check": {

"column6": {"date\_format": "YYYY-MM-DD"},

"column7": {"date\_format": "MM-DD-YYYY"}

},

"Future\_Date\_Check": ["column8","column9"]

}

}