

Data Uncleaning Recipe

```
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  {
    "op": "core/text-transform",
    "engineConfig": {
      "facets": [
        {
          "type": "list",
          "name": "Index",
          "expression": "jython:import random\na = [random.randint(1,
20000) for i in range(0,750)]\n\nfor value in range(1, 20001):\n if value
in a:\n  return \"True\"\n elif value not in a:\n  return \"False\"",
          "columnName": "Index",
          "invert": false,
          "omitBlank": false,
          "omitError": false,
          "selection": [
            {
              "v": {
                "v": "True",
                "l": "True"
              }
            }
          ],
          "selectBlank": false,
          "selectError": false
        }
      ],
      "mode": "row-based"
    },
    "columnName": "quality_dimension",
    "expression": "jython:return \"Validity\"",
    "onError": "keep-original",
    "repeat": false,
    "repeatCount": 10,
    "description": "Text transform on cells in column quality_dimension
using expression jython:return \"Validity\""
  },
  {
    "op": "core/text-transform",
    "engineConfig": {
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          "name": "quality_dimension",
          "expression": "value",
          "columnName": "quality_dimension",
          "invert": false,
          "omitBlank": false,
          "omitError": false,
          "selection": [
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              "v": {
                "v": "Validity",
                "l": "Validity"
              }
            }
          ],
          "selectBlank": false,
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        "selectError": false
    }
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    "mode": "row-based"
},
    "columnName": "release_date",
    "expression": "grel:toDate(value),\"dd/MM/yyyy\"",
    "onError": "keep-original",
    "repeat": false,
    "repeatCount": 10,
    "description": "Text transform on cells in column release_date using
expression grel:toDate(value),\"dd/MM/yyyy\""
},
{
    "op": "core/text-transform",
    "engineConfig": {
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                "name": "Index",
                "expression": "jython:import random\na = [random.randint(1,
20000) for i in range(0,50)]\n\nfor value in range(1, 20001):\n if value
in a:\n     return \"True\"\n elif value not in a:\n     return \"False\"",
                "columnName": "Index",
                "invert": false,
                "omitBlank": false,
                "omitError": false,
                "selection": [
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                        "v": {
                            "v": "True",
                            "l": "True"
                        }
                    }
                ],
                "selectBlank": false,
                "selectError": false
            }
        ],
        "mode": "row-based"
    },
    "columnName": "quality_dimension",
    "expression": "jython:return \"Validity1\"",
    "onError": "keep-original",
    "repeat": false,
    "repeatCount": 10,
    "description": "Text transform on cells in column quality_dimension
using expression jython:return \"Validity1\""
},
{
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    "engineConfig": {
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                "name": "quality_dimension",
                "expression": "value",
                "columnName": "quality_dimension",
                "invert": false,
                "omitBlank": false,

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        "omitError": false,
        "selection": [
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                "v": {
                    "v": "Validity1",
                    "l": "Validity1"
                }
            }
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        "selectBlank": false,
        "selectError": false
    }
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},
    "columnName": "release_date",
    "expression": "grel:toDate(value),\"dd/MM/yyyy\"",
    "onError": "keep-original",
    "repeat": false,
    "repeatCount": 10,
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expression grel:toDate(value),\"dd/MM/yyyy\""
},
{
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    "engineConfig": {
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                "expression": "value",
                "columnName": "quality_dimension",
                "invert": false,
                "omitBlank": false,
                "omitError": false,
                "selection": [
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                            "v": "Validity1",
                            "l": "Validity1"
                        }
                    }
                ],
                "selectBlank": false,
                "selectError": false
            }
        ],
        "mode": "row-based"
    },
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    "expression": "grel:\"Validity\"",
    "onError": "keep-original",
    "repeat": false,
    "repeatCount": 10,
    "description": "Text transform on cells in column quality_dimension
using expression grel:\"Validity\""
},
{
    "op": "core/text-transform",
    "engineConfig": {

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"facets": [
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    "name": "quality_dimension",
    "expression": "value",
    "columnName": "quality_dimension",
    "invert": false,
    "omitBlank": false,
    "omitError": false,
    "selection": [],
    "selectBlank": true,
    "selectError": false
  },
  {
    "type": "list",
    "name": "Index",
    "expression": "jython:import random\na = [random.randint(1,
20000) for i in range(0,850)]\n\nfor value in range(1, 20001):\n if value
in a:\n  return \"True\"\n elif value not in a:\n  return \"False\"",
    "columnName": "Index",
    "invert": false,
    "omitBlank": false,
    "omitError": false,
    "selection": [
      {
        "v": {
          "v": "True",
          "l": "True"
        }
      }
    ],
    "selectBlank": false,
    "selectError": false
  }
],
"mode": "row-based"
},
"columnName": "quality_dimension",
"expression": "jython:return \"Consistency\"",
"onError": "keep-original",
"repeat": false,
"repeatCount": 10,
"description": "Text transform on cells in column quality_dimension
using expression jython:return \"Consistency\"",
},
{
  "op": "core/text-transform",
  "engineConfig": {
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        "name": "quality_dimension",
        "expression": "value",
        "columnName": "quality_dimension",
        "invert": false,
        "omitBlank": false,
        "omitError": false,
        "selection": [
          {
            "v": {

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                "v": "Consistency",
                "l": "Consistency"
            }
        }
    ],
    "selectBlank": false,
    "selectError": false
}
],
"mode": "row-based"
},
"columnName": "name",
"expression": "value.toUpperCase() ",
"onError": "keep-original",
"repeat": false,
"repeatCount": 10,
"description": "Text transform on cells in column name using
expression value.toUpperCase() "
},
{
    "op": "core/text-transform",
    "engineConfig": {
        "facets": [
            {
                "type": "list",
                "name": "quality_dimension",
                "expression": "value",
                "columnName": "quality_dimension",
                "invert": false,
                "omitBlank": false,
                "omitError": false,
                "selection": [],
                "selectBlank": true,
                "selectError": false
            },
            {
                "type": "list",
                "name": "quality_dimension",
                "expression": "jython:import random\na = [random.randint(1,
20000) for i in range(0,850)]\n\nfor value in range(1, 20001):\n if value
in a:\n    return \"True\"\n elif value not in a:\n    return \"False\"",
                "columnName": "quality_dimension",
                "invert": false,
                "omitBlank": false,
                "omitError": false,
                "selection": [
                    {
                        "v": {
                            "v": "True",
                            "l": "True"
                        }
                    }
                ],
                "selectBlank": false,
                "selectError": false
            }
        ]
    },
    "mode": "row-based"
},
"columnName": "quality_dimension",

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    "expression": "jython:return \"Accuracy\"",
    "onError": "keep-original",
    "repeat": false,
    "repeatCount": 10,
    "description": "Text transform on cells in column quality_dimension
using expression jython:return \"Accuracy\""
  },
  {
    "op": "core/text-transform",
    "engineConfig": {
      "facets": [
        {
          "type": "list",
          "name": "quality_dimension",
          "expression": "value",
          "columnName": "quality_dimension",
          "invert": false,
          "omitBlank": false,
          "omitError": false,
          "selection": [
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              "v": {
                "v": "Accuracy",
                "l": "Accuracy"
              }
            }
          ],
          "selectBlank": false,
          "selectError": false
        }
      ],
      "mode": "row-based"
    },
    "columnName": "album",
    "expression": "jython:return \"_\"+value+\"v\"",
    "onError": "keep-original",
    "repeat": false,
    "repeatCount": 10,
    "description": "Text transform on cells in column album using
expression jython:return \"_\"+value+\"v\""
  },
  {
    "op": "core/text-transform",
    "engineConfig": {
      "facets": [
        {
          "type": "list",
          "name": "quality_dimension",
          "expression": "value",
          "columnName": "quality_dimension",
          "invert": false,
          "omitBlank": false,
          "omitError": false,
          "selection": [],
          "selectBlank": true,
          "selectError": false
        }
      ],
      {
        "type": "list",
        "name": "quality_dimension",

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        "expression": "jython:import random\na = [random.randint(1,
17723) for i in range(0,850)]\n\nfor value in range(1, 17724):\n if value
in a:\n    return \"True\"\n elif value not in a:\n    return \"False\"",
        "columnName": "quality_dimension",
        "invert": false,
        "omitBlank": false,
        "omitError": false,
        "selection": [
            {
                "v": {
                    "v": "True",
                    "l": "True"
                }
            }
        ],
        "selectBlank": false,
        "selectError": false
    }
],
    "mode": "row-based"
},
    "columnName": "quality_dimension",
    "expression": "jython:return \"Completeness\"",
    "onError": "keep-original",
    "repeat": false,
    "repeatCount": 10,
    "description": "Text transform on cells in column quality_dimension
using expression jython:return \"Completeness\"",
},
{
    "op": "core/text-transform",
    "engineConfig": {
        "facets": [
            {
                "type": "list",
                "name": "quality_dimension",
                "expression": "value",
                "columnName": "quality_dimension",
                "invert": false,
                "omitBlank": false,
                "omitError": false,
                "selection": [
                    {
                        "v": {
                            "v": "Completeness",
                            "l": "Completeness"
                        }
                    }
                ]
            },
            {
                "selectBlank": false,
                "selectError": false
            }
        ]
    },
    "mode": "row-based"
},
    "columnName": "year",
    "expression": "jython:return \"\"",
    "onError": "keep-original",
    "repeat": false,
    "repeatCount": 10,

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    "description": "Text transform on cells in column year using
expression jython:return \"\"
  },
  {
    "op": "core/text-transform",
    "engineConfig": {
      "facets": [
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          "type": "list",
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          "expression": "value",
          "columnName": "quality_dimension",
          "invert": false,
          "omitBlank": false,
          "omitError": false,
          "selection": [],
          "selectBlank": true,
          "selectError": false
        },
        {
          "type": "list",
          "name": "quality_dimension",
          "expression": "jython:import random\na = [random.randint(1,
16872) for i in range(0,850)]\n\nfor value in range(1, 16873):\n if value
in a:\n  return \"True\"\n elif value not in a:\n  return \"False\"",
          "columnName": "quality_dimension",
          "invert": false,
          "omitBlank": false,
          "omitError": false,
          "selection": [
            {
              "v": {
                "v": "True",
                "l": "True"
              }
            }
          ],
          "selectBlank": false,
          "selectError": false
        }
      ],
      "mode": "row-based"
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    "columnName": "quality_dimension",
    "expression": "jython:return \"Confirmity\"",
    "onError": "keep-original",
    "repeat": false,
    "repeatCount": 10,
    "description": "Text transform on cells in column quality_dimension
using expression jython:return \"Confirmity\""
  },
  {
    "op": "core/text-transform",
    "engineConfig": {
      "facets": [
        {
          "type": "list",
          "name": "quality_dimension",
          "expression": "value",
          "columnName": "quality_dimension",

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        "invert": false,
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        "omitError": false,
        "selection": [
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                    "v": "Confirmity",
                    "l": "Confirmity"
                }
            }
        ],
        "selectBlank": false,
        "selectError": false
    }
],
    "mode": "row-based"
},
    "columnName": "quality_dimension",
    "expression": "jython:return \"Conformity\"",
    "onError": "keep-original",
    "repeat": false,
    "repeatCount": 10,
    "description": "Text transform on cells in column quality_dimension
using expression jython:return \"Conformity\""
},
{
    "op": "core/column-split",
    "engineConfig": {
        "facets": [],
        "mode": "row-based"
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    "columnName": "artists",
    "guessCellType": true,
    "removeOriginalColumn": true,
    "mode": "separator",
    "separator": "['",
    "regex": false,
    "maxColumns": 0,
    "description": "Split column artists by separator"
},
{
    "op": "core/column-removal",
    "columnName": "artists 1",
    "description": "Remove column artists 1"
},
{
    "op": "core/column-split",
    "engineConfig": {
        "facets": [],
        "mode": "row-based"
    },
    "columnName": "artists 2",
    "guessCellType": true,
    "removeOriginalColumn": true,
    "mode": "separator",
    "separator": "']",
    "regex": false,
    "maxColumns": 0,
    "description": "Split column artists 2 by separator"
},

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```

{
  "op": "core/column-removal",
  "columnName": "artists 2 2",
  "description": "Remove column artists 2 2"
},
{
  "op": "core/column-rename",
  "oldColumnName": "artists 2 1",
  "newColumnName": "artists",
  "description": "Rename column artists 2 1 to artists"
},
{
  "op": "core/text-transform",
  "engineConfig": {
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        "type": "list",
        "name": "quality_dimension",
        "expression": "value",
        "columnName": "quality_dimension",
        "invert": false,
        "omitBlank": false,
        "omitError": false,
        "selection": [
          {
            "v": {
              "v": "Conformity",
              "l": "Conformity"
            }
          }
        ],
        "selectBlank": false,
        "selectError": false
      },
      {
        "type": "list",
        "name": "explicit",
        "expression": "value",
        "columnName": "explicit",
        "invert": false,
        "omitBlank": false,
        "omitError": false,
        "selection": [
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            "v": {
              "v": "FALSE",
              "l": "FALSE"
            }
          }
        ],
        "selectBlank": false,
        "selectError": false
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    ],
    "mode": "row-based"
  },
  "columnName": "explicit",
  "expression": "jython:return \"0\"",
  "onError": "keep-original",
  "repeat": false,

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    "repeatCount": 10,
    "description": "Text transform on cells in column explicit using
expression jython:return \"0\""
  },
  {
    "op": "core/column-addition",
    "engineConfig": {
      "facets": [],
      "mode": "row-based"
    },
    "baseColumnName": "release_date",
    "expression": "jython:return \"16-03-2021\"",
    "onError": "set-to-blank",
    "newColumnName": "last_updated",
    "columnInsertIndex": 17,
    "description": "Create column last_updated at index 17 based on
column release_date using expression jython:return \"16-03-2021\""
  },
  {
    "op": "core/text-transform",
    "engineConfig": {
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          "name": "quality_dimension",
          "expression": "value",
          "columnName": "quality_dimension",
          "invert": false,
          "omitBlank": false,
          "omitError": false,
          "selection": [
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              "v": {
                "v": "Conformity",
                "l": "Conformity"
              }
            }
          ],
          "selectBlank": false,
          "selectError": false
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      "expression": "value",
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      "invert": false,
      "omitBlank": false,
      "omitError": false,
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          "v": {
            "v": "TRUE",
            "l": "TRUE"
          }
        }
      ],
      "selectBlank": false,
      "selectError": false
    }
  }
}

```

```

    ],
    "mode": "row-based"
  },
  "columnName": "quality_dimension",
  "expression": "jython:return \"\"",
  "onError": "keep-original",
  "repeat": false,
  "repeatCount": 10,
  "description": "Text transform on cells in column quality_dimension
using expression jython:return \"\"",
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{
  "op": "core/text-transform",
  "engineConfig": {
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        "name": "quality_dimension",
        "expression": "value",
        "columnName": "quality_dimension",
        "invert": false,
        "omitBlank": false,
        "omitError": false,
        "selection": [],
        "selectBlank": true,
        "selectError": false
      },
      {
        "type": "list",
        "name": "quality_dimension",
        "expression": "jython:import random\na = [random.randint(1,
16090) for i in range(0,850)]\n\nfor value in range(1, 16091):\n if value
in a:\n  return \"True\"\n elif value not in a:\n  return \"False\"",
        "columnName": "quality_dimension",
        "invert": false,
        "omitBlank": false,
        "omitError": false,
        "selection": [
          {
            "v": {
              "v": "True",
              "l": "True"
            }
          }
        ],
        "selectBlank": false,
        "selectError": false
      }
    ],
    "mode": "row-based"
  },
  "columnName": "quality_dimension",
  "expression": "jython:return \"Timliness\"",
  "onError": "keep-original",
  "repeat": false,
  "repeatCount": 10,
  "description": "Text transform on cells in column quality_dimension
using expression jython:return \"Timliness\"",
},
{

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```

"op": "core/text-transform",
"engineConfig": {
  "facets": [
    {
      "type": "list",
      "name": "quality_dimension",
      "expression": "value",
      "columnName": "quality_dimension",
      "invert": false,
      "omitBlank": false,
      "omitError": false,
      "selection": [
        {
          "v": {
            "v": "Timliness",
            "l": "Timliness"
          }
        }
      ],
      "selectBlank": false,
      "selectError": false
    }
  ],
  "mode": "row-based"
},
"columnName": "last_updated",
"expression": "jython:return \"14-03-2021\"",
"onError": "keep-original",
"repeat": false,
"repeatCount": 10,
"description": "Text transform on cells in column last_updated using
expression jython:return \"14-03-2021\"",
},
{
  "op": "core/text-transform",
  "engineConfig": {
    "facets": [
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        "name": "quality_dimension",
        "expression": "value",
        "columnName": "quality_dimension",
        "invert": false,
        "omitBlank": false,
        "omitError": false,
        "selection": [],
        "selectBlank": true,
        "selectError": false
      },
      {
        "type": "list",
        "name": "quality_dimension",
        "expression": "jython:import random\na = [random.randint(1,
15202) for i in range(0,850)]\n\nfor value in range(1, 15203):\n if value
in a:\n  return \"True\"\n elif value not in a:\n  return \"False\"",
        "columnName": "quality_dimension",
        "invert": false,
        "omitBlank": false,
        "omitError": false,
        "selection": [

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```

        {
            "v": {
                "v": "True",
                "l": "True"
            }
        },
        "selectBlank": false,
        "selectError": false
    }
],
    "mode": "row-based"
},
"columnName": "quality_dimension",
"expression": "jython:return \"Uniqueness\"",
"onError": "keep-original",
"repeat": false,
"repeatCount": 10,
"description": "Text transform on cells in column quality_dimension
using expression jython:return \"Uniqueness\""
}
]

```