NOT | AND | OR

+ ADD RULE   + ADD GROUP

≡

login ⌄

== ⌄

⌄

Lowercase ⌄

(

⌄

firstName ⌄

)

🗑

≡

In stock ⌄

is

- ⬤ +

🗑

≡

Slider ⌄

== ⌄

⌄

35

0%   **100%**

🗑

≡

Results ⌄

+

≡

product ⌄

== ⌄

abc ⌄

🗑

≡

score ⌄

> ⌄

8

🗑

NOT | AND | OR ≡

Cars ⌄

Count > ⌄

2

+ 🗑

≡

vendor ⌄

== ⌄

Toyota ⌄

🗑

≡

year ⌄

>= ⌄

2010

🗑

SpEL:

[   ]

spelFormat:

```
"(user.login == user.firstName.toLowerCase() && stock == false && slider == 35 && results.?[product == 'abc' && score > 8].size() > 0 && cars.?[vendor ==
```

---

stringFormat:

```
"(t1.login == LOWER(user.firstName) && stock is false && slider == 35 && (results.product == \"abc\" && results.score > 8) && COUNT OF cars WHERE (vendor
```

---

humanStringFormat:

```
"(User.login = Lowercase(String: Username) AND NOT In stock AND Slider = 35 AND (Results.product = abc AND Results.score > 8) AND COUNT OF Cars WHERE (ve
```

---

sqlFormat:

```
[
    "Aggregation is not supported for cars"
]
```

```
"(t1.login = LOWER(user.firstName) AND stock = false AND slider = 35 AND (results.product = 'abc' AND results.score > 8) AND (cars.vendor = 'Toyota' AND
```

[jsonLogicFormat](#):

```
// Rule:
{
  "and": [
    {
      "==": [
        {
          "var": "user.login"
        },
        {
          "toLowerCase": [
            {
              "var": "user.firstName"
            }
          ]
        }
      ]
    },
    {
      "==": [
        {
          "var": "stock"
        },
        false
      ]
    },
    {
      "==": [
        {
          "var": "slider"
        },
        35
      ]
    },
    {
      "some": [
        {
          "var": "results"
        },
        {
          "and": [
            {
              "==": [
                {
                  "var": "product"
                },
                "abc"
              ]
            },
            {
              ">": [
                {
                  "var": "score"
                },
                8
              ]
            }
          ]
        }
      ]
    },
    {
      ">": [
        {
          "reduce": [
            {
              "filter": [
                {
                  "var": "cars"
                },
                {
                  "and": [
                    {
                      "==": [
```

```json
                            {
                              "var": "vendor"
                            },
                            "Toyota"
                          ]
                        },
                        {
                          ">=": [
                            {
                              "var": "year"
                            },
                            2010
                          ]
                        }
                      ]
                    }
                  ]
                },
                {
                  "+": [
                    1,
                    {
                      "var": "accumulator"
                    }
                  ]
                },
                0
              ]
            },
            2
          ]
        }
      ]
    }
  ]
}
```

```json
// Data:
{
  "user": {
    "firstName": null,
    "login": null
  },
  "stock": null,
  "slider": null,
  "results": [
    {
      "product": null,
      "score": null
    }
  ],
  "cars": [
    {
      "vendor": null,
      "year": null
    }
  ]
}
```

mongodbFormat:

```json
{
  "$and": [
    {
      "$expr": {
        "$eq": [
          "$user.login",
          {
            "$toLower": "$user.firstName"
          }
        ]
      }
    },
    {
      "stock": false
    },
    {
      "slider": 35
    },
    {
      "results": {
        "$elemMatch": {
          "product": "abc",
          "score": {
            "$gt": 8
          }
        }
      }
    },
    {
      "$expr": {
        "$gt": [
          {
            "$size": {
              "$filter": {
                "input": "$cars",
                "as": "el",
                "cond": {
                  "$and": [
                    {
                      "$expr": {
                        "$eq": [
                          "$$el.vendor",
                          "Toyota"
                        ]
                      }
                    }
```

```json
                },
                {
                  "$expr": {
                    "$gte": [
                      "$$el.year",
                      2010
                    ]
                  }
                }
              ]
            }
          }
        },
        2
      ]
    }
  }
]
}
```

elasticSearchFormat:

```json
{
  "bool": {
    "must": [
      {
        "term": {
          "stock": false
        }
      },
      {
        "term": {
          "slider": 35
        }
      },
      {
        "bool": {
          "must": [
            {
              "term": {
                "results.product": "abc"
              }
            },
            {
              "range": {
                "results.score": {
                  "gt": "8"
                }
              }
            }
          ]
        }
      },
      {
        "bool": {
          "must": [
            {
              "term": {
                "cars.vendor": "Toyota"
              }
            },
            {
              "range": {
                "cars.year": {
                  "gte": "2010"
                }
              }
            }
          ]
        }
      }
    ]
  }
}
```

Tree:

```json
{
  "type": "group",
  "id": "99b89999-4567-489a-bcde-f1865880f608",
  "children1": [
    {
      "type": "rule",
      "id": "aa889989-89ab-4cde-b012-31865880f601",
      "properties": {
        "field": "user.login",
        "operator": "equal",
        "value": [
          {
            "func": "LOWER",
            "args": {
              "str": {
                "valueSrc": "field",
                "value": "user.firstName",
                "valueType": "text"
              }
            }
          }
        ],
        "valueSrc": [
          "func"
```

```json
      ],
      "valueType": [
        "text"
      ],
      "valueError": [
        null
      ]
    }
  },
  {
    "type": "rule",
    "id": "b99aba8a-4567-489a-bcde-f1865880f601",
    "properties": {
      "field": "stock",
      "operator": "equal",
      "value": [
        false
      ],
      "valueSrc": [
        "value"
      ],
      "valueType": [
        "boolean"
      ],
      "valueError": [
        null
      ]
    }
  },
  {
    "type": "rule",
    "id": "9a99989b-0123-4456-b89a-b1865880f602",
    "properties": {
      "field": "slider",
      "operator": "equal",
      "value": [
        35
      ],
      "valueSrc": [
        "value"
      ],
      "valueType": [
        "number"
      ],
      "valueError": [
        null
      ]
    }
  },
  {
    "type": "rule_group",
    "id": "99baa99a-4567-489a-bcde-f1865880f606",
    "children1": [
      {
        "type": "rule",
        "id": "b8aa9a89-cdef-4012-b456-71865880f603",
        "properties": {
          "field": "results.product",
          "operator": "select_equals",
          "value": [
            "abc"
          ],
          "valueSrc": [
            "value"
          ],
          "valueType": [
            "select"
          ],
          "valueError": [
            null
          ]
        }
      },
      {
        "type": "rule",
        "id": "ba9b989b-89ab-4cde-b012-31865880f604",
        "properties": {
          "field": "results.score",
          "operator": "greater",
          "value": [
            8
          ],
          "valueSrc": [
            "value"
          ],
          "valueType": [
            "number"
          ],
          "valueError": [
            null
          ]
        }
      }
    ],
    "properties": {
      "conjunction": "AND",
      "not": false,
      "field": "results",
      "operator": "some"
    }
  },
  {
    "type": "rule_group",
    "id": "8a999988-89ab-4cde-b012-31865880f608",
    "children1": [
```

```json
        {
          "type": "rule",
          "id": "a9aaab89-0123-4456-b89a-b1865880f607",
          "properties": {
            "field": "cars.vendor",
            "operator": "select_equals",
            "value": [
              "Toyota"
            ],
            "valueSrc": [
              "value"
            ],
            "valueType": [
              "select"
            ],
            "valueError": [
              null
            ]
          }
        },
        {
          "type": "rule",
          "id": "aba888a8-cdef-4012-b456-71865880f607",
          "properties": {
            "field": "cars.year",
            "operator": "greater_or_equal",
            "value": [
              2010
            ],
            "valueSrc": [
              "value"
            ],
            "valueType": [
              "number"
            ],
            "valueError": [
              null
            ]
          }
        }
      ],
      "properties": {
        "conjunction": "AND",
        "not": false,
        "field": "cars",
        "mode": "array",
        "operator": "greater",
        "value": [
          2
        ],
        "valueSrc": [
          "value"
        ],
        "valueType": [
          "number"
        ]
      }
    }
  ],
  "properties": {
    "conjunction": "AND",
    "not": false
  }
}
```