Textual index

Introduction

A textual index is a data structure used in database systems to facilitate efficient search and retrieval of text-based information. It is designed to handle large volumes of textual data and provide quick access to relevant documents or records based on specified search criteria.

When a search query is performed on a database with a textual index, the index is queried to identify relevant documents or records that match the search terms. The index provides information about the location and relevance of the documents, which enables the database system to retrieve and present the results in a timely manner.

Textual indexes play a crucial role in enabling efficient search and retrieval of textual information in databases, making them an essential component in applications that handle large volumes of textual data, such as search engines, content management systems, and document repositories.

> Soffid incorporates a textual index using the Apache Lucene library.

Index configuration

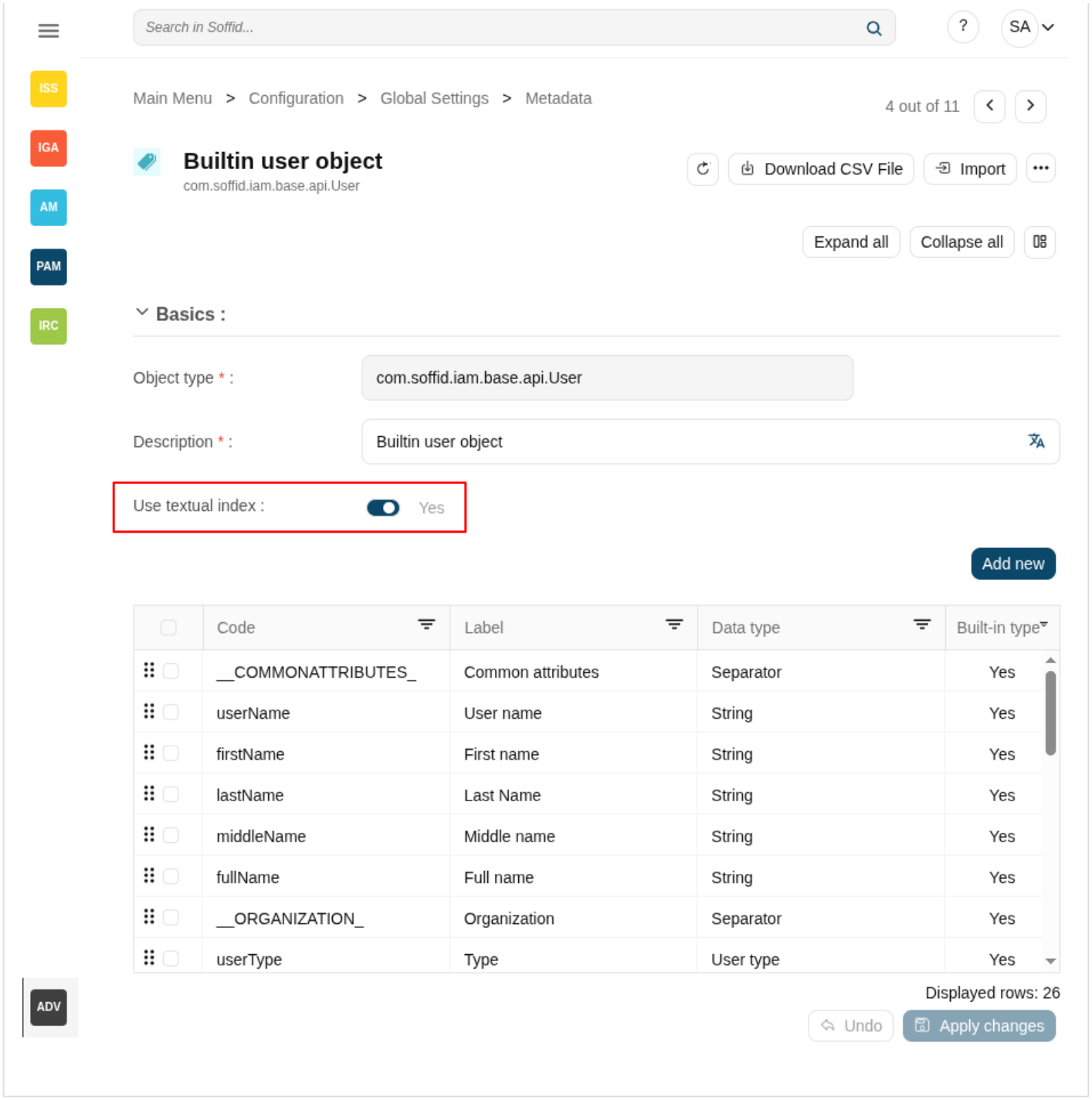
Soffid allows you to configure the objects you want to use in the textual index. To do this, you must select the proper object from the metadata page and enable the option "Use textual index". Once you enable this option, the textual index will be applied to the attributes of this object that have been included in the quick search.

> Notice, from the user interface, it is not interpreted as a Lucene expression.

Example

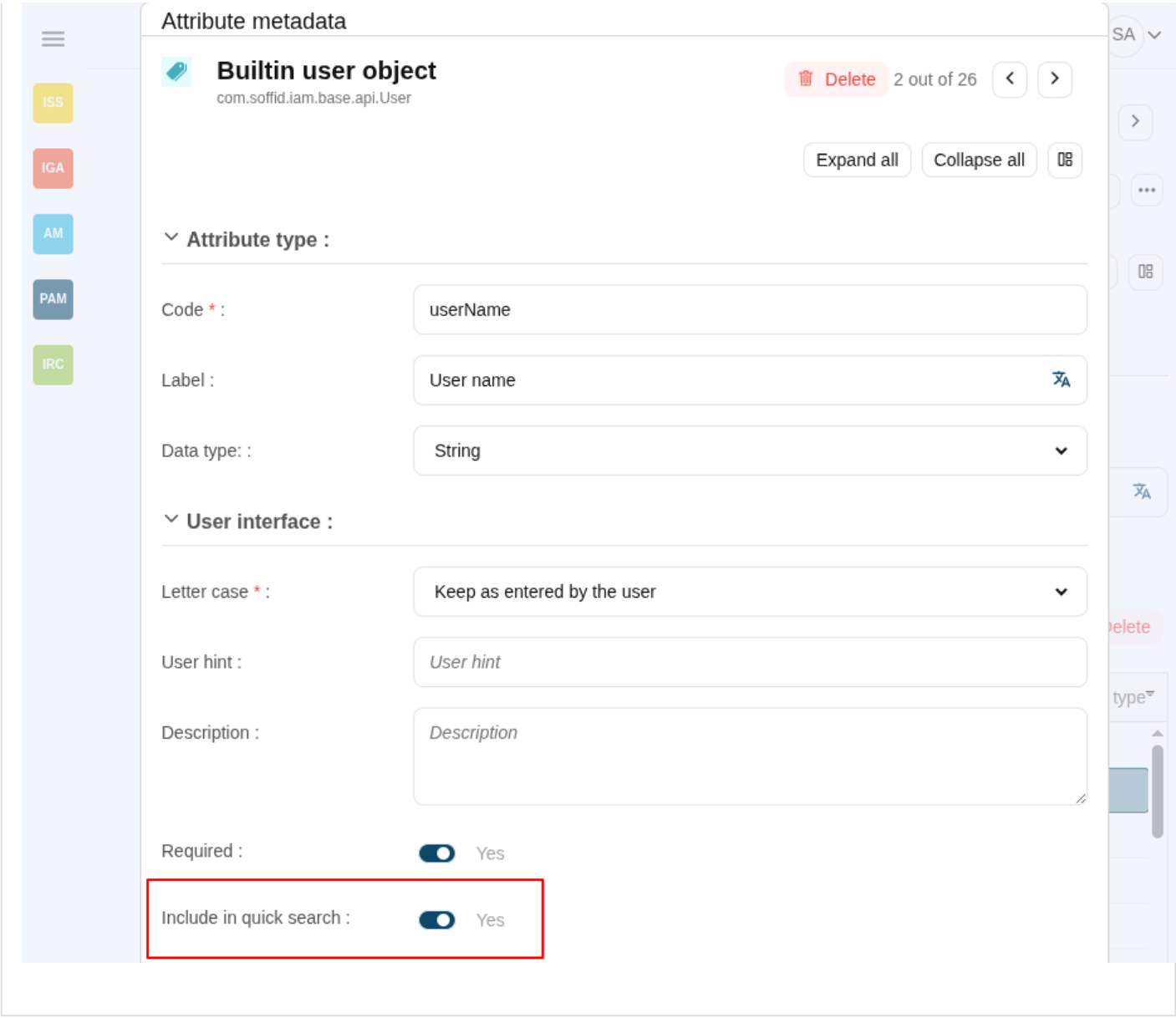
1. Enable the "**Use textual index**" on the User object and save the changes.

Image



2. Check the attributes if the opction "**Included in the quick search**" is enabled.

Image



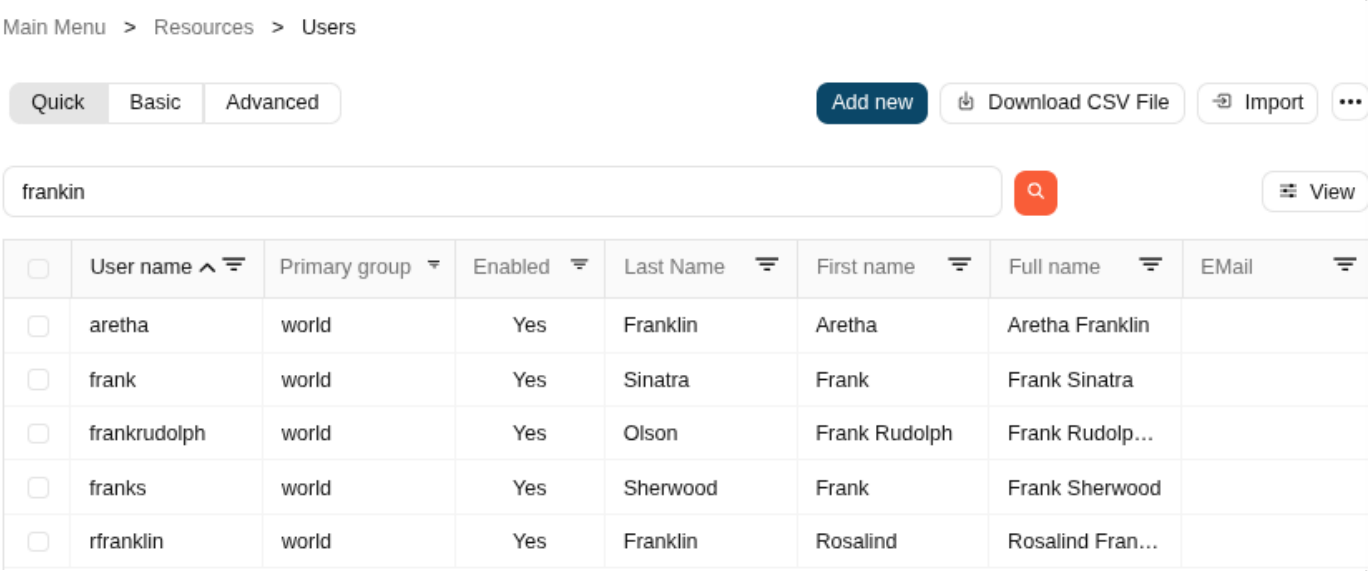
How does the user interface search work?

Once you have configured the textual index for a specific object, Soffid will apply it when you use Quick Search on this object.

Example 1

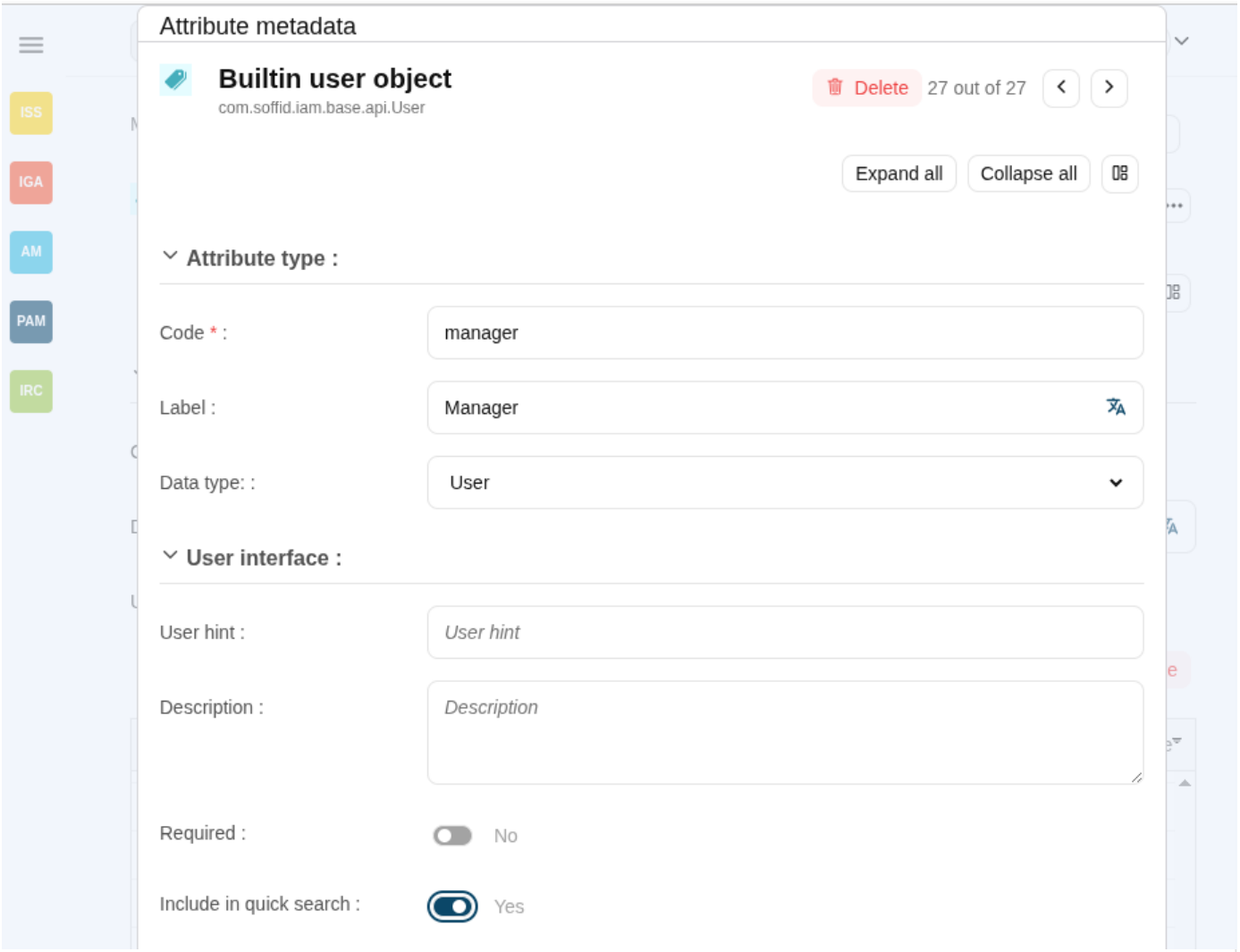
1. If you search for users using the text "*frankin*", then Soffid will display all the users whose userName, firstName, lastName, or middleName match, to some degree, with the typed text following the textual index rules.

Image



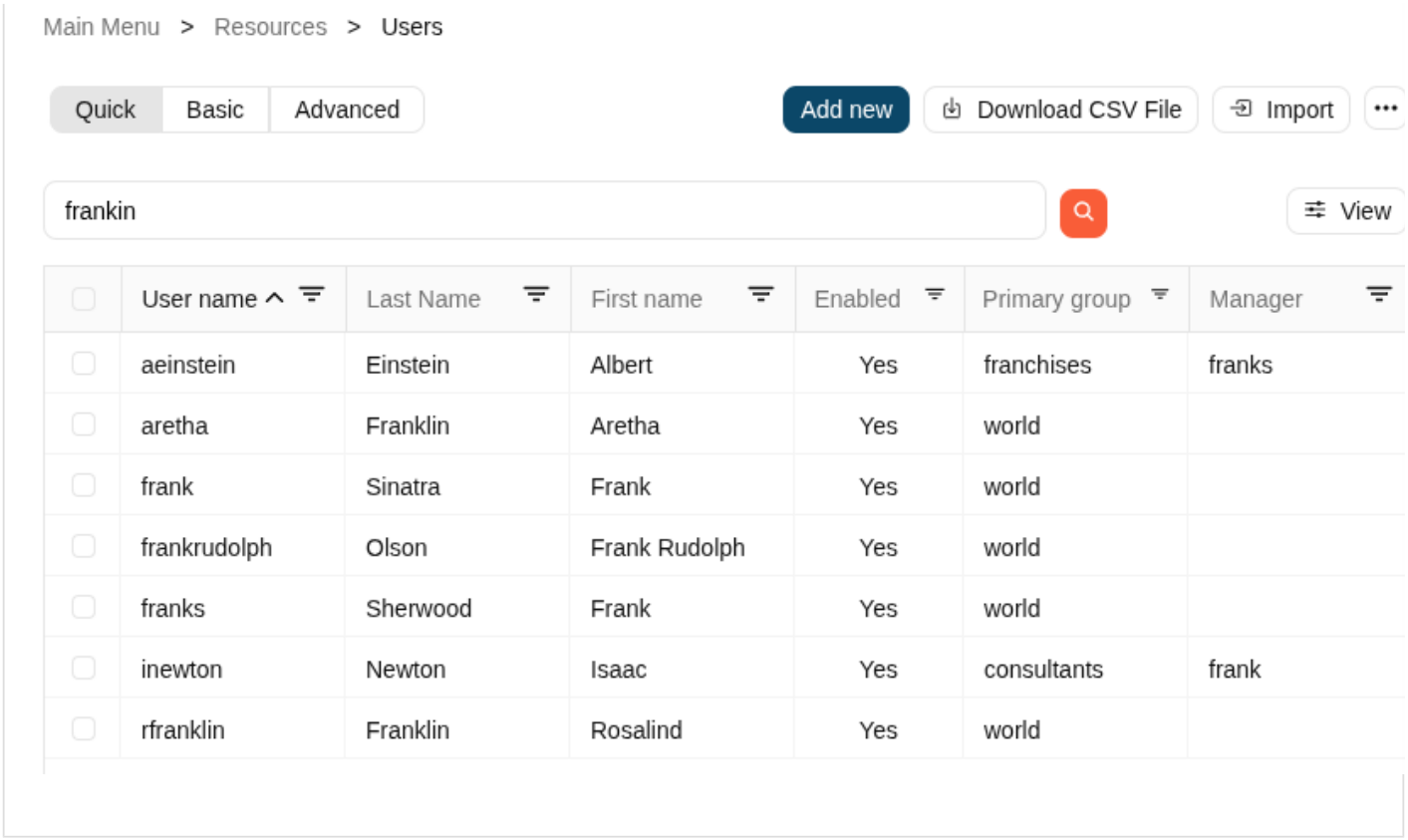
2. If you include the attribute manager in the quick search:

Image



3. And search for "*frankin*", then Soffid will display all the users whose userName, firstName, lastName, middleName, or manager match with the typed text following the textual index rules.

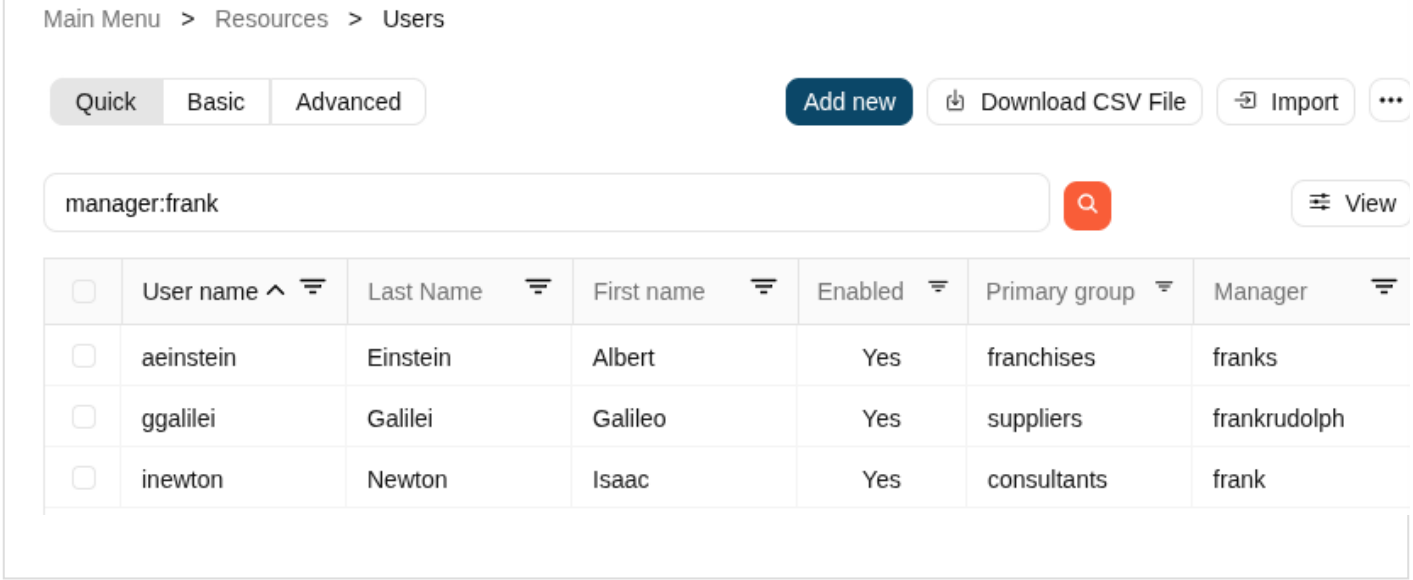
Image



Example 2

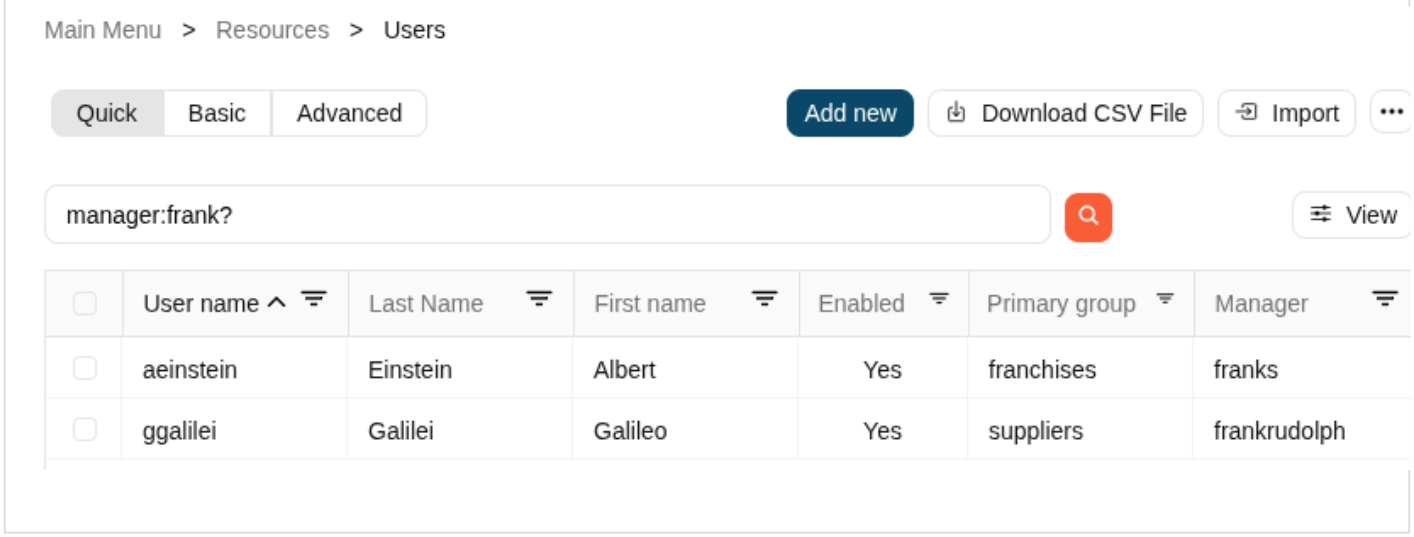
1. If you search for users using the text "manager:frank" Soffid will display all users whose manager matches the text "frank".

Image



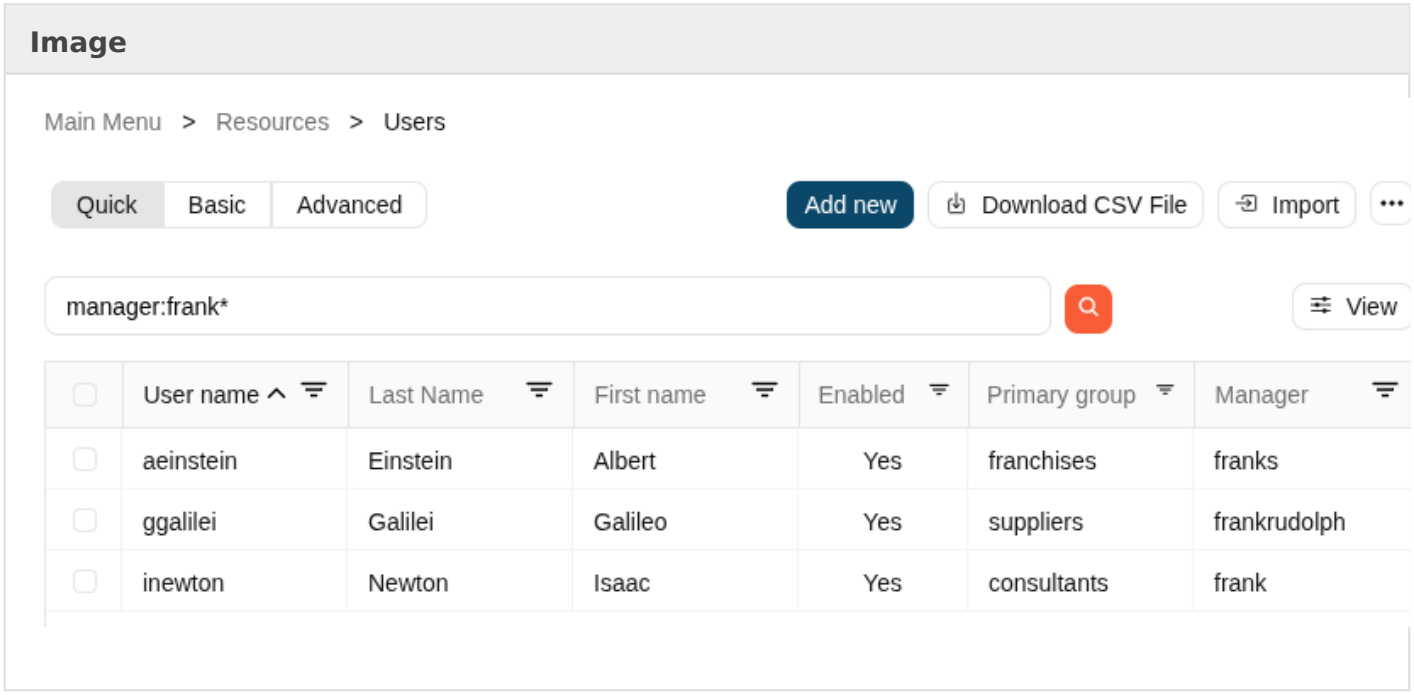
Notice the difference by searching "manager:frank?":

Image



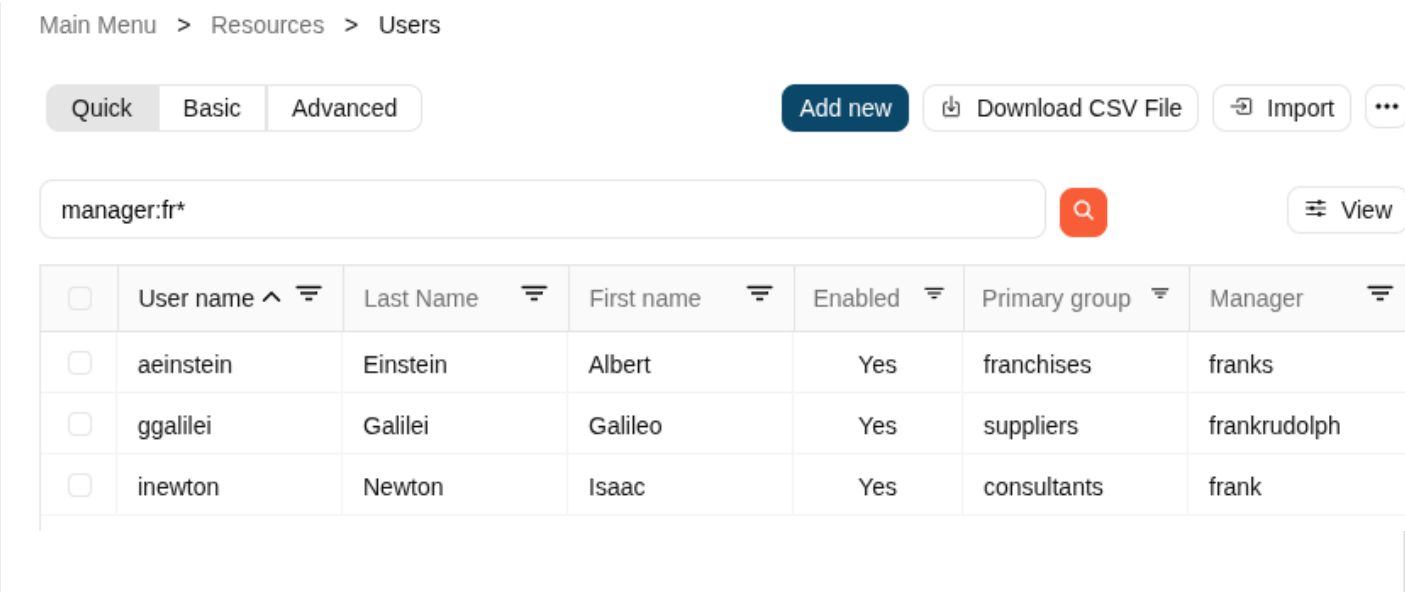
And by searching "manager:frank*":

Image



And also by searching "manager:fr*"

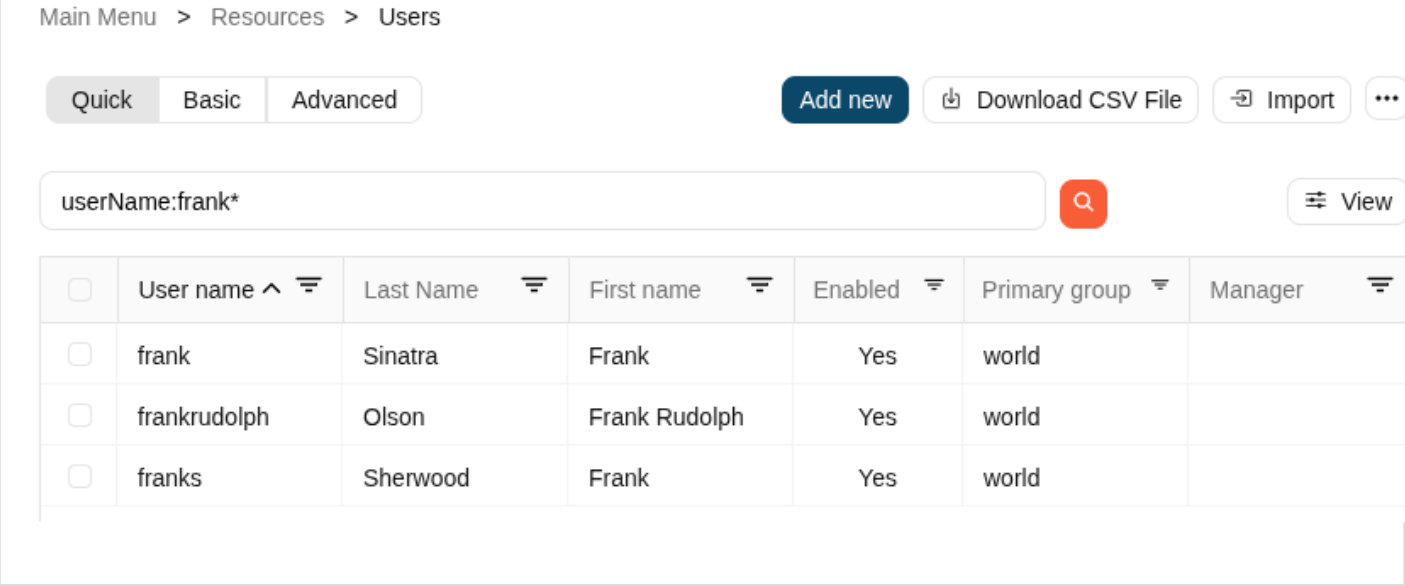
Image



Example 3

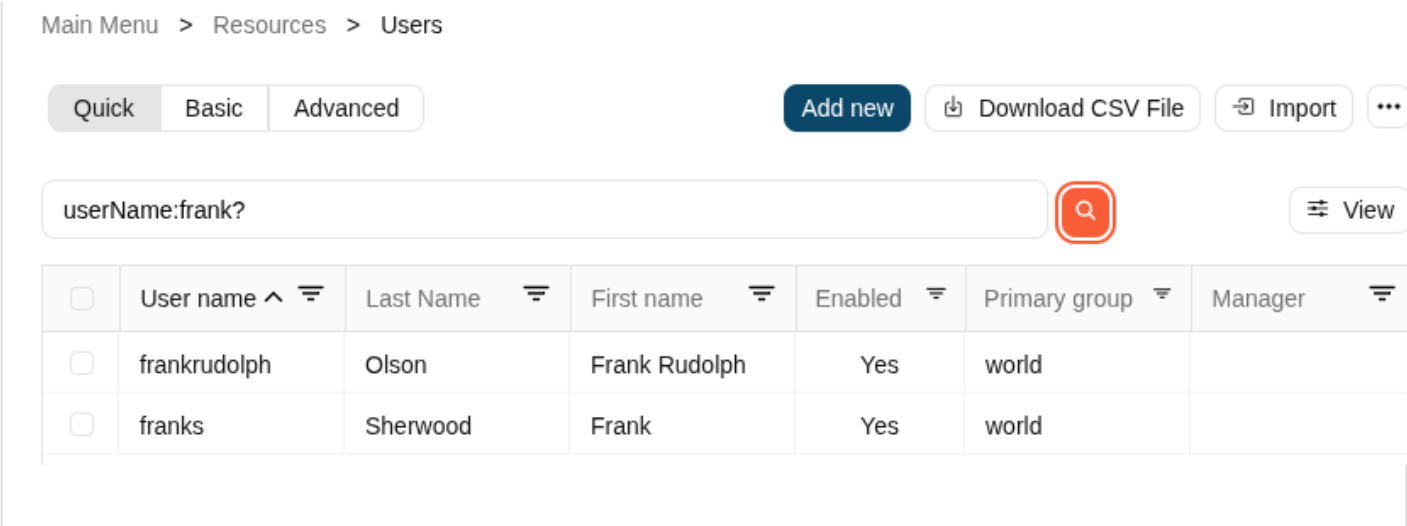
1. If you search for users using the text "userName:frank*" Soffid will display all users whose user name matches the text "frank" followed by any other text.

Image



Notice the difference by searching the text "userName:frank?":

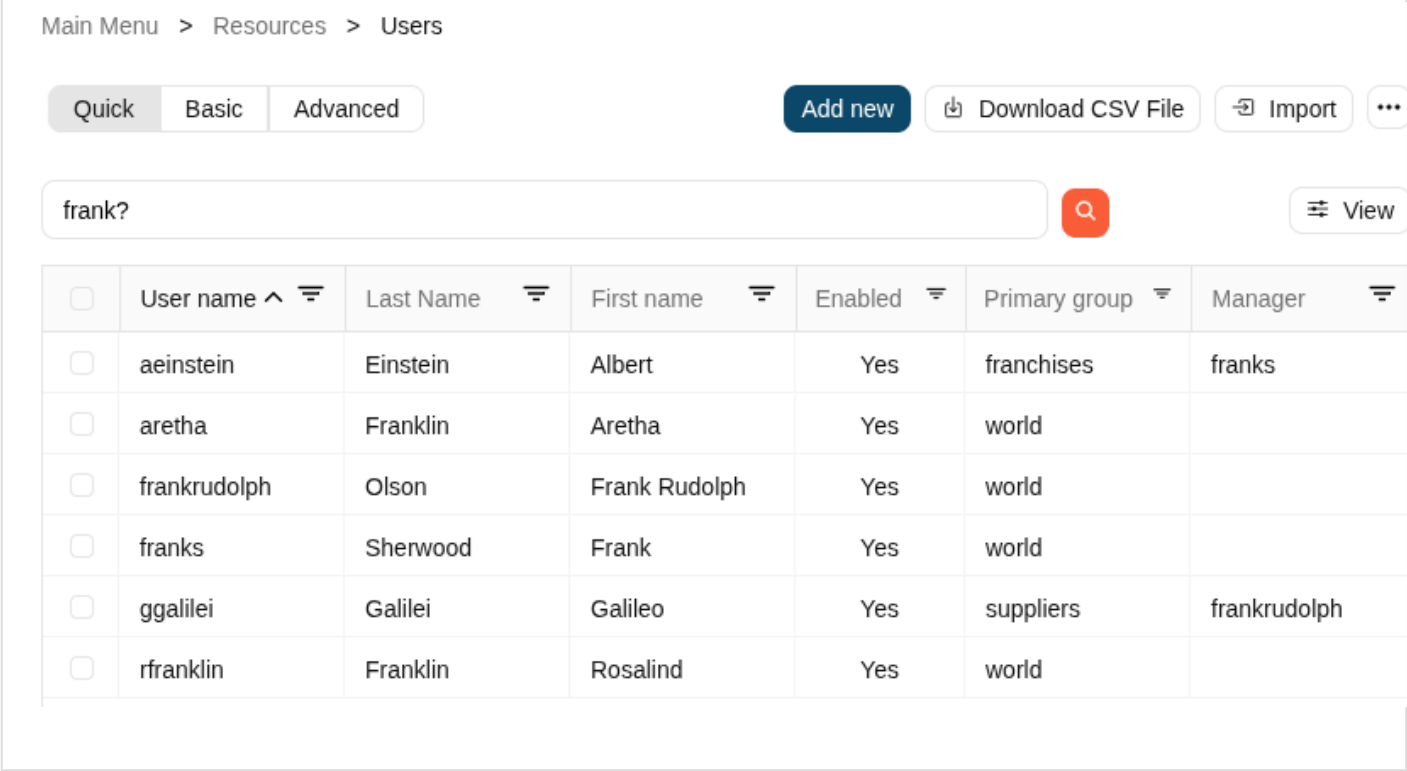
Image



Example 4

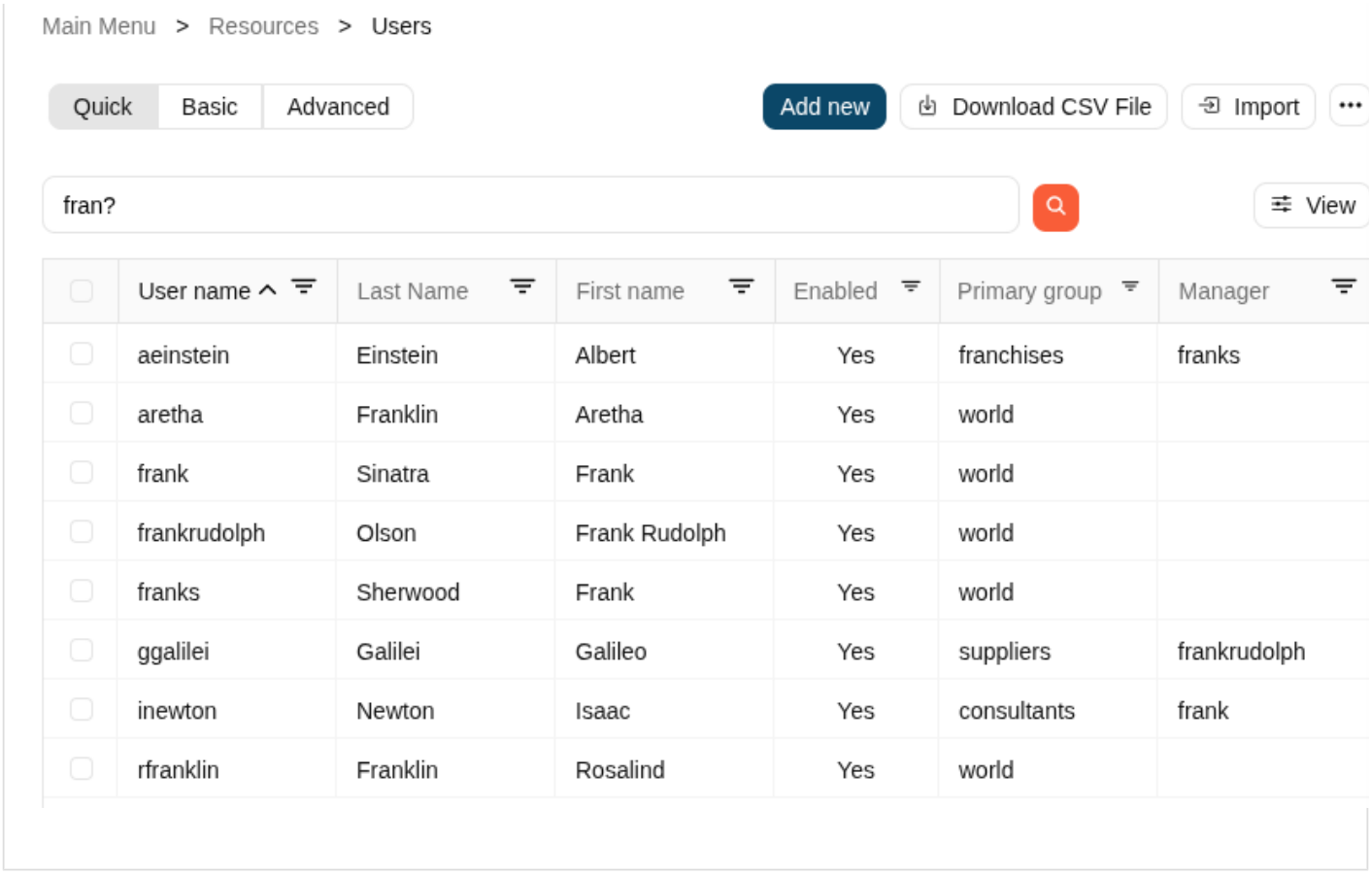
1. If you search for users using the text "frank" plus the wildcard "?", Soffid will display all users whose userName, firstName, lastName, middleName, or manager match the typed text as long as it has variation in the characters where the wildcard has been used.

Image



Notice the difference by searching "fran?"

Image



How does the SCIM interface search work?

1. First of all, you must install the SCIM addon in Soffid.

> For more information, you can visit the How to install SCIM in Soffid? page.

2. Then, you can use any REST client to test and consume our SCIM REST web service.

> For more information, you can visit the Testing tool page.

3. Finally, you can start to use the SCIM interface search by using Lucene syntaxis

Lucene syntaxis

>

> Please browse the standard specifications in this link:Siebel

Term Modifiers

Lucene supports modifying query terms to provide a wide range of search options. Here are the most common ones:

Wildcard Searches	To perform a single character wildcard search use the "?" symbol. To perform a multiple character wildcard search use the "*" symbol.
Regular Expression Searches	Lucene supports regular expression searches matching a pattern between forward slashes "/"
Fuzzy Searches	To do a fuzzy search use the tilde, "~", symbol at the end of a Single word Term Soffid Console <= 3.4 version ~0.8: stricter search ~0.1: more lax search Soffid Console > 3.4 version An additional (optional) parameter can specify the maximum number of edits allowed. The value is between 0 and 2.
Range Searches	Range Queries allow one to match documents whose field(s) values are between the lower and upper bound specified by the Range Query
Boosting a Term	To boost a term use the caret, "^", symbol with a boost factor (a number) at the end of the term you are searching. The higher the boost factor, the more relevant the term will be.

Boolean Operators

OR	The OR operator links two terms and finds a matching document if either of the terms exist in a document. This is equivalent to a union using sets
AND	The AND operator matches documents where both terms exist anywhere in the text of a single document. This is equivalent to an intersection using sets.
+	The "+" or required operator requires that the term after the "+" symbol exist somewhere in a the field of a single document.
NOT	The NOT operator excludes documents that contain the term after NOT. This is equivalent to a difference using sets.
-	The "-" or prohibit operator excludes documents that contain the term after the "-" symbol.

Escaping Special Characters

Lucene supports escaping special characters that are part of the query syntax.

The current list of special characters are + - && || ! ( ) { } [ ] ^ " ~ * ? : \ /

Examples

Example 1

1. Use the wildcard search

1.1. *

Request

```
GET http://<domain>/webservice/scim2/v1/User?textFilter=fran*
```

Response 200 OK


```
{
   "schemas": [
      "urn:ietf:params:scim:api:messages:2.0:ListResponse"
   ],
   "totalResults": 4,
   "startIndex": 1,
   "Resources": [
      {
         "lastName": "Franklin",
         "createdByUser": "ActiveDirectory",
         "fullName": "Rosalind Franklin",
         "active": true,
         "userName": "rfranklin",
         "mailAlias": "",
         "firstName": "Rosalind",
         "createdDate": "2023-08-08 14:26:14",
         "multiSession": true,
         "meta": {
            "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/2862",
            "links": {
               "roleAccounts":
```

"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'rfranklin'+and+enabled+eq+true",
"groupUsers": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'rfranklin'+and+disabled+eq+false",
"accounts": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'rfranklin'",
"issues": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'rfranklin'",
"effectiveGrants": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/2862/effectiveGrants"
},
"resourceType": "User"
},
"modifiedByUser": "ActiveDirectory",
"schemas": [
"urn:soffid:com.soffid.iam.api.User"
],
"modifiedDate": "2023-08-08 14:26:14",
"attributes": {},
"id": 2862,
"userType": "I",
"primaryGroupDescription": "scientist",
"primaryGroup": "scientist"
},
{
"lastName": "Franklin",
"createdByUser": "ActiveDirectory",
"fullName": "Aretha Franklin",
"active": true,
"userName": "aretha",
"mailAlias": "",
"firstName": "Aretha",
"createdDate": "2023-09-06 13:12:54",
"multiSession": true,
"meta": {
"location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276397",
"links": {
"roleAccounts": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'aretha'+and+enabled

+eq+true",
"groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'aretha'+and+disabled+eq+false",
"accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'aretha'",
"issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'aretha'",
"effectiveGrants":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276397/effectiveGrants"
},
"resourceType": "User"
},
"modifiedByUser": "ActiveDirectory",
"schemas": [
"urn:soffid:com.soffid.iam.api.User"
],
"modifiedDate": "2023-09-06 13:12:54",
"attributes": {},
"id": 276397,
"userType": "I",
"primaryGroupDescription": "World",
"primaryGroup": "world"
},
{
"lastName": "Sinatra",
"createdByUser": "ActiveDirectory",
"fullName": "Frank Sinatra",
"active": true,
"userName": "frank",
"mailAlias": "",
"firstName": "Frank",
"createdDate": "2023-09-06 13:12:54",
"multiSession": true,
"meta": {
"location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276435",
"links": {
"roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'frank'+and+enabled+

eq+true",
"groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'frank'+and+disabled+eq+false",
"accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'frank'",
"issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'frank'",
"effectiveGrants":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276435/effectiveGrants"
},
"resourceType": "User"
},
"modifiedByUser": "ActiveDirectory",
"schemas": [
"urn:soffid:com.soffid.iam.api.User"
],
"modifiedDate": "2023-09-06 13:12:55",
"attributes": {},
"id": 276435,
"userType": "I",
"primaryGroupDescription": "Music",
"primaryGroup": "Music"
},
{
"lastName": "Sherwood",
"createdByUser": "pgarcia",
"fullName": "Frank Sherwood",
"active": true,
"userName": "franks",
"mailAlias": "",
"firstName": "Frank",
"createdDate": "2023-10-05 15:32:40",
"multiSession": false,
"meta": {
"location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/432644",
"links": {
"roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'franks'+and+enabled

```
+eq+true",
                "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'franks'+and+disabled+eq+f
alse",
                "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+e
q+'franks'",
                "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'franks'",
                "effectiveGrants":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/432644/effectiveGrants"
            },
            "resourceType": "User"
        },
        "modifiedByUser": "pgarcia",
        "schemas": [
            "urn:soffid:com.soffid.iam.api.User"
        ],
        "modifiedDate": "2023-10-05 15:32:40",
        "attributes": {},
        "id": 432644,
        "userType": "I",
        "primaryGroupDescription": "scientist",
        "primaryGroup": "scientist"
    }
  ]
}
```


1.2. ?

Request

```
http://<domain>/webservice/scim2/v1/User?textFilter=fran?
```

Response 200 OK


```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 2,
```

```
  "startIndex": 1,
  "Resources": [
    {
      "lastName": "Sinatra",
      "createdByUser": "ActiveDirectory",
      "fullName": "Frank Sinatra",
      "active": true,
      "userName": "frank",
      "mailAlias": "",
      "firstName": "Frank",
      "createdDate": "2023-09-06 13:12:54",
      "multiSession": true,
      "meta": {
        "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276435",
        "links": {
          "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'frank'+and+enabled+
eq+true",
          "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'frank'+and+disabled+eq+fal
se",
          "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+e
q+'frank'",
          "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'frank'",
          "effectiveGrants":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276435/effectiveGrants"
        },
        "resourceType": "User"
      },
      "modifiedByUser": "ActiveDirectory",
      "schemas": [
        "urn:soffid:com.soffid.iam.api.User"
      ],
      "modifiedDate": "2023-09-06 13:12:55",
      "attributes": {},
      "id": 276435,
      "userType": "I",
      "primaryGroupDescription": "Music",
```

```
      "primaryGroup": "Music"
    },
    {
      "lastName": "Sherwood",
      "createdByUser": "pgarcia",
      "fullName": "Frank Sherwood",
      "active": true,
      "userName": "franks",
      "mailAlias": "",
      "firstName": "Frank",
      "createdDate": "2023-10-05 15:32:40",
      "multiSession": false,
      "meta": {
        "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/432644",
        "links": {
          "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'franks'+and+enabled
+eq+true",
          "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'franks'+and+disabled+eq+f
alse",
          "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+e
q+'franks'",
          "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'franks'",
          "effectiveGrants":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/432644/effectiveGrants"
        },
        "resourceType": "User"
      },
      "modifiedByUser": "pgarcia",
      "schemas": [
        "urn:soffid:com.soffid.iam.api.User"
      ],
      "modifiedDate": "2023-10-05 15:32:40",
      "attributes": {},
      "id": 432644,
      "userType": "I",
      "primaryGroupDescription": "scientist",
```

```
        "primaryGroup": "scientist"
      }
   ]
}
```


Example 2

1. Use the wildcard search in a specific attribute

Request

```
GET http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User?textFilter=userName:frank
```

Response 200 OK


```
{
   "schemas": [
      "urn:ietf:params:scim:api:messages:2.0:ListResponse"
   ],
   "totalResults": 1,
   "startIndex": 1,
   "Resources": [
      {
         "lastName": "Sinatra",
         "profileServer": "Void host",
         "createdByUser": "admin",
         "fullName": "Frankaaa Sinatra",
         "active": true,
         "userName": "frank",
         "mailAlias": "",
         "mailServer": "Void host",
         "firstName": "Frankaaa",
         "emailAddress": "pgarcia@soffid.com",
         "mailDomain": "soffid.com",
         "createdDate": "2023-06-02 07:41:47",
         "multiSession": false,
         "meta": {
            "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/3910",
            "links": {
               "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'frank'+and+enabled+
```

eq+true",
"groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'frank'+and+disabled+eq+false",
"accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'frank'",
"effectiveGrants": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/3910/effectiveGrants"
},
"resourceType": "User"
},
"modifiedByUser": "admin",
"schemas": [
"urn:soffid:com.soffid.iam.api.User"
],
"modifiedDate": "2023-06-02 07:41:47",
"attributes": {
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+WVnSxL4Kv3Jn/Awb8oHi+LpAtpwCmTqVH6pL8j/uMFTp7yfD0AEnYpciIOBRfjrAqkoXa1o9sMyG/wCWnpCqLax+P2
oEAAAzHXUcOEBuG2w9M3yg25f8S2wnTNcwDIV4XHw0mTxWIe/bsugPAWvz7+6Ds9sxW4G/mLgEEjkQQbwPYdnb
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V0IZWAII1BB3WIiMkCPaDtJBgvOBoEWFd1RS7sFUbyTYTp0DC9Iekj1wUpgrR5nKvWcLl3ITL/KA/eAZQI/86eeKcHw7C
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pNe6X9olTqUvrY6i54Wmqczp0ATiAnToH//2Q=="

        },

```
        "id": 3910,
        "userType": "I",
        "homeServer": "Void host",
        "shortName": "pgarcia",
        "primaryGroupDescription": "Music",
        "primaryGroup": "Music"
      }
   ]
}
```


Example 3

1. Use the Fuzzy Searches

Request


```
GET http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User?textFilter=fran~
```


Response 200 OK


```
{
   "schemas": [
      "urn:ietf:params:scim:api:messages:2.0:ListResponse"
   ],
   "totalResults": 2,
   "startIndex": 1,
   "Resources": [
      {
         "lastName": "Sinatra",
         "createdByUser": "ActiveDirectory",
         "fullName": "Frank Sinatra",
         "active": true,
         "userName": "frank",
         "mailAlias": "",
         "firstName": "Frank",
         "createdDate": "2023-09-06 13:12:54",
         "multiSession": true,
         "meta": {
            "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276435",
            "links": {
               "roleAccounts":
```

"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'frank'+and+enabled+eq+true",
"groupUsers": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'frank'+and+disabled+eq+false",
"accounts": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'frank'",
"issues": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'frank'",
"effectiveGrants": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276435/effectiveGrants"
},
"resourceType": "User"
},
"modifiedByUser": "ActiveDirectory",
"schemas": [
"urn:soffid:com.soffid.iam.api.User"
],
"modifiedDate": "2023-09-06 13:12:55",
"attributes": {},
"id": 276435,
"userType": "I",
"primaryGroupDescription": "Music",
"primaryGroup": "Music"
},
{
"lastName": "Sherwood",
"createdByUser": "pgarcia",
"fullName": "Frank Sherwood",
"active": true,
"userName": "franks",
"mailAlias": "",
"firstName": "Frank",
"createdDate": "2023-10-05 15:32:40",
"multiSession": false,
"meta": {
"location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/432644",
"links": {
"roleAccounts":

```
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'franks'+and+enabled+eq+true",
                "groupUsers": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'franks'+and+disabled+eq+false",
                "accounts": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'franks'",
                "issues": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'franks'",
                "effectiveGrants": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/432644/effectiveGrants"
            },
            "resourceType": "User"
        },
        "modifiedByUser": "pgarcia",
        "schemas": [
            "urn:soffid:com.soffid.iam.api.User"
        ],
        "modifiedDate": "2023-10-05 15:32:40",
        "attributes": {},
        "id": 432644,
        "userType": "I",
        "primaryGroupDescription": "scientist",
        "primaryGroup": "scientist"
    }
  ]
}
```


2. Use the Fuzzy Searches: specify the maximum number of edits allowed

Request

```
GET http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User?textFilter=frankl~2
```

Response 200 OK


```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
```

```
  "totalResults": 4,
  "startIndex": 1,
  "Resources": [
    {
      "lastName": "Franklin",
      "createdByUser": "ActiveDirectory",
      "fullName": "Rosalind Franklin",
      "active": true,
      "userName": "rfranklin",
      "mailAlias": "",
      "firstName": "Rosalind",
      "createdDate": "2023-08-08 14:26:14",
      "multiSession": true,
      "meta": {
        "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/2862",
        "links": {
          "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'rfranklin'+and+enable
d+eq+true",
          "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'rfranklin'+and+disabled+eq
+false",
          "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+e
q+'rfranklin'",
          "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'rfranklin'",
          "effectiveGrants": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/2862/effectiveGrants"
        },
        "resourceType": "User"
      },
      "modifiedByUser": "ActiveDirectory",
      "schemas": [
        "urn:soffid:com.soffid.iam.api.User"
      ],
      "modifiedDate": "2023-08-08 14:26:14",
      "attributes": {},
      "id": 2862,
      "userType": "I",
      "primaryGroupDescription": "scientist",
```

```
      "primaryGroup": "scientist"
    },
    {
      "lastName": "Franklin",
      "createdByUser": "ActiveDirectory",
      "fullName": "Aretha Franklin",
      "active": true,
      "userName": "aretha",
      "mailAlias": "",
      "firstName": "Aretha",
      "createdDate": "2023-09-06 13:12:54",
      "multiSession": true,
      "meta": {
        "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276397",
        "links": {
          "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'aretha'+and+enabled
+eq+true",
          "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'aretha'+and+disabled+eq+f
alse",
          "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+e
q+'aretha'",
          "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'aretha'",
          "effectiveGrants":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276397/effectiveGrants"
        },
        "resourceType": "User"
      },
      "modifiedByUser": "ActiveDirectory",
      "schemas": [
        "urn:soffid:com.soffid.iam.api.User"
      ],
      "modifiedDate": "2023-09-06 13:12:54",
      "attributes": {},
      "id": 276397,
      "userType": "I",
      "primaryGroupDescription": "World",
```

```
      "primaryGroup": "world"
    },
    {
      "lastName": "Sinatra",
      "createdByUser": "ActiveDirectory",
      "fullName": "Frank Sinatra",
      "active": true,
      "userName": "frank",
      "mailAlias": "",
      "firstName": "Frank",
      "createdDate": "2023-09-06 13:12:54",
      "multiSession": true,
      "meta": {
        "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276435",
        "links": {
          "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'frank'+and+enabled+
eq+true",
          "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'frank'+and+disabled+eq+fal
se",
          "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+e
q+'frank'",
          "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'frank'",
          "effectiveGrants":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276435/effectiveGrants"
        },
        "resourceType": "User"
      },
      "modifiedByUser": "ActiveDirectory",
      "schemas": [
        "urn:soffid:com.soffid.iam.api.User"
      ],
      "modifiedDate": "2023-09-06 13:12:55",
      "attributes": {},
      "id": 276435,
      "userType": "I",
      "primaryGroupDescription": "Music",
```

```
      "primaryGroup": "Music"
    },
    {
      "lastName": "Sherwood",
      "createdByUser": "pgarcia",
      "fullName": "Frank Sherwood",
      "active": true,
      "userName": "franks",
      "mailAlias": "",
      "firstName": "Frank",
      "createdDate": "2023-10-05 15:32:40",
      "multiSession": false,
      "meta": {
        "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/432644",
        "links": {
          "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'franks'+and+enabled
+eq+true",
          "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'franks'+and+disabled+eq+f
alse",
          "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+e
q+'franks'",
          "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'franks'",
          "effectiveGrants":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/432644/effectiveGrants"
        },
        "resourceType": "User"
      },
      "modifiedByUser": "pgarcia",
      "schemas": [
        "urn:soffid:com.soffid.iam.api.User"
      ],
      "modifiedDate": "2023-10-05 15:32:40",
      "attributes": {},
      "id": 432644,
      "userType": "I",
      "primaryGroupDescription": "scientist",
```

```
        "primaryGroup": "scientist"
      }
   ]
}
```


Example 4

1. Use the boolean operator AND

Request

```
GET http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User?textFilter=fran~ AND Sinatra
```

Response 200 OK


```
{
   "schemas": [
      "urn:ietf:params:scim:api:messages:2.0:ListResponse"
   ],
   "totalResults": 1,
   "startIndex": 1,
   "Resources": [
      {
         "lastName": "Sinatra",
         "profileServer": "Void host",
         "createdByUser": "admin",
         "fullName": "Frankaaa Sinatra",
         "active": true,
         "userName": "frank",
         "mailAlias": "",
         "mailServer": "Void host",
         "firstName": "Frankaaa",
         "emailAddress": "pgarcia@soffid.com",
         "mailDomain": "soffid.com",
         "createdDate": "2023-06-02 07:41:47",
         "multiSession": false,
         "meta": {
            "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/3910",
            "links": {
               "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'frank'+and+enabled+
```

eq+true",
"groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'frank'+and+disabled+eq+false",
"accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'frank'",
"effectiveGrants": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/3910/effectiveGrants"
},
"resourceType": "User"
},
"modifiedByUser": "admin",
"schemas": [
"urn:soffid:com.soffid.iam.api.User"
],
"modifiedDate": "2023-06-02 07:41:47",
"attributes": {
"picture":
"/9j/4AAQSkZJRgABAQAAAQABAAD/2wCEAAoHCBYWFRgVFRYYGRgaGhkYGhgaGBoYGhoYHBkaGhgZGhgcIS4lHB4rIRgYJjgmKy8xNTU1GiQ7QDs0Py40NTEBDAwMBgYGEAYGEDEdFh0xMTExMTExMTExMTExMTExMTExMTExMTExMTExMTExMTExMTExMTExMTExMTExMTExMTExMf/AABEIAKgBKwMBIgACEQEDEQH/xAAcAAABBQEBAQAAAAAAAAAAAAADAQIEBQYABwj/xABFEAACAQIDBAcECAQFAgcBAAABAgADEQQSIQUxQVEGEyJhcYGRMkKhsQcjUnKSwdHwFGKCoiQzY7LhU3NDZIOTo8LxFf/EABQBAQAAAAAAAAAAAAAAAAAAAD/xAAUEQEAAAAAAAAAAAAAAAAAAAAA/9oADAMBAAIRAxEAPwDeqIVZWEVZWEVZWE

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+WVnSxL4Kv3Jn/Awb8oHi+LpAtpwCmTqVH6pL8j/uMFTp7yfD0AEnYpciIOBRfjrAqkoXa1o9sMyG/wCWnpCqLax+P2
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dpOtlYa+nfLBmVhpuni2G2nk5ibjox0jD9g+1A09OoBmEitj0Q9owi4RzrKDaxdWsqFiONtLwJe1Nt1stqKgXF8zfvTjKHE
9o3r4nX71hfmBI2JNUkK1xfQKDqSeQ4eJg2Z8Ndy6U7OEuEzszWubs29R690C1wGKw6nLnDHd2jL1KiMNDfvvYD0kK
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eXjNL0VIZATb/n9/KWu19kBxmXQj98IGOTYFU5lennDEMHVwpzDQWO+1uGnHnNbsvolSSiyOLs5zWXUILAKoYgXsA
Ne+Q8Hh6yEAG/jrL6i1S3bbTugYXaXQ1kVnDLZbm2rE6nyGhHpM9sZiuJS2mtp6ltrFKtJgd1tTPLqFT65SN94HsuGfsA
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BcFhkw6ZFYm9yxvqzHS5t4W8pG/gUe5YAchbcJMTBrvzEwopiBUrg8h/4lZtB7dkbyQB56TQ4phaZjFDNUQd9/Td8bQI
229jI9RKiXznsuP5V7Kn0EvcEgzKo1ChU89Xb/avrCVqJVLKbE72tckHSwHG5Mk7OweRdd9txNyL6knmx4+AECTOvH
GNIgcTEvEvHgQODTs04iNJgKRBOsfnjWeBHcRto52gs8DUARwjVMdA4CLEvEJgLmiXnRsB0VYwQloDhDI0AIRTAxP0o
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dRufMpF1ud+4ccu6B6SwgnWYXCbfq4dsrl3UvlyN1aJTW1xZyBw58LTZbO2lTrpnpsDb2gGBKnkcpIgPYRhEKyxloAwJ
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cDcByGssE6MYNd6FiL+3UbXfwB8IFliNoU1FzUQD74/WQ6rmqv1Op0IY6KdeHP5QB2bhUYFKNPNwsoNvM6k+Mt6Lh
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VFKpSmST1be2VVrjsaL7V7a6jjLPpIow2ITLotHEVKZ/7bpTqW/C7yp2jh7L1V7t1qlydNVZqRPhYo3/qXgEo4qrTdHd2K
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w3nSHYi10upKPcMjrvVx7LDv+YnntXOjMjjqyHGew0pVW0TEU/9J9zLuveeobLrFls2t5lOm2FAIrBc2VWWon/Uot/mKO

ZA7Y+6YGXF7dWUANygQ3KrUHabDk7zTcdpD7p3RNlY16Lq9JaRQDsgkU6zpftIdbOym6kHiNN8FVXQqXuAEps/NG7
WExPipshPIyLinS4esjFHZg6Icpp11stS3DWwax/KB6xhMStRFqJqrC4594I4EboRhMj0Hx62egHzrq9Jjo2XQOjD7amxP
3r8Zq2eAhMS8S8SBzmBzwjiDtA0Aj1M4COtAVWhVMCBCKIBRHARiiRNq7XTDrdu05BKotyzd9hqB3wD7R2hToJnqNb
kPeY8gPz3Cefbb6Q1MV2EJCfYp1aYc/eBBznuB8oLaWJq1nNR1qDk3ULUVV5atoB4CQEqVGPZGGxAPuZFV/JLlw8rwK
DGk7hUL2YDIyZKwN9ymx1vyPlK50ZfdWn3sbufz+E021aYrLlCZKo0FOr7R5CnVNmBvuV9OR4SrOAFuxg3J+1UZiPS
yiBRsyX1Lufwj8zHpm9ykB3kFj6tJGIp1UOuSn3Bk09CZFc39qrfuAY/OwgPdXPtOq92YD4LJmwdonD1lfrMynsuNTdTvI
7xv8u+Vl6Y4OfML+s4svBP7mMD1fauAXE0SgIv7dN+Aa2mv2Tx9eE87VGRzTcFWU5WB3gzRdCtsAr/AA7XBXVNd6
8VvzHyPdLHpPsXrl62mPrUH/uKPdP8w4engFDiMASugvpKhsM6nshr915ouju0Vaytv3WPxmjQICCANf3+/CBisM2ONs
gqW3bv1Es8NsrHsczs4B3gkCbZKigX+EmJXUiBQbP2a6bxr6n1lg1Mrv3yfUrASqx+LAHfuA4k8LCBWba2itJc7nTlxJ5
DmZA6C4tsTjKebgxcjkEBK/HLKfpc5Y6nQbhy5zQ/Q3hO3WrHgqovmczH4CAP6SFHW4pbah8NVH9aGkf9qiE2bsF6/
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hCxW5UtbedTIH8cGxKuoIRVRFB3gKoFj33BM3PTvCipTzDhr+v5TzzDUi7qote/tW1sPnA9d2HUBUGQemastPrE1ZCH
A+0FN3XzXMPOSdh0cqAdwndKCwoO6i7IpcDmV7VvO0Dzg0kVsl70xZM3PC4jWm39Dnfwgu0wdH9tll3X/xOGNhod
5en63hCiEZfcQ5Cf8AyuJ7VNv6HIgqrsCKje2pV3H+rQcUq/4kZWgM2btIJUTEU1C9pespjQB7WLIPsuuYW4G3dPUetD
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0itHgwSiFUQHrDoINU4zGdIek3WXo4c3QGzuC/a5gdWpIXzF/DeFztjpMlO6Uu2/wBoK7IvgUUhjMJjHaqxLujltSr1alIn8Y
RYF6ii1+qB/mOLuPMyRQqZtFBb/s1s/wD8Fa5bwgREwrUzmFDEp/NScOO7ULb4yQtRa182WsRvV16rEabyrrcOd+hJ
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A3XlXicJTRnTE1atwQaZUB1dCLhrsRv/MS4p4hAGqZPqqnYxFIb0YnR0HAX1XkbjlB1kdCEV1z01vSqEArUwzm7C5BtY
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o1jV4sB/Uo+XhCYvCoNTXVj3Bm+N5DyJ9o+SwDU69VHV1cZlII7SnX9P1nqGx9pJWpo67yO0L+y3vCeTOE4FvSXHR
naYo1At+w5AJ3Wf3Tv47vTlA1u2+jpZzXw1g+903BjxZTuDcxuO/TjQrtipSbI6spG9WFj6H5zbUsRcSPjXUizqGHJgGHx
gRMN0ipMmrWPIx9Hb6D3x6yH/8AzqbGwo0/wLNBszohhaq2enlb7SGx9LW9RArK/SBdynOeAGvryjMCjM2dzdzcADc
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mN+QmgwLtUzCklkIKs9ygdTvAG8i3Ezz7Z2MV8QrkgrmtI4HS4J5ier7LqLYeEBlNcgHYJUb8upHlxHhrlfSHFKcJWdWB
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V0IZWAII1BB3WIiMkCPaDtJBgvOBoEWFd1RS7sFUbyTYTp0DC9Iekj1wUpgrR5nKvWcLl3ITL/KA/eAZQI/86eeKcHw7C
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lvpaLOgDw+Is2lgBusLcbi/E8tZ6p0a2mHRTfXd5zp0DV0sRKjpdsX+ModWrhGDBwxGYXAIsRcEXvvE6dAotl9HqeDQ
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pNe6X9olTqUvrY6i54Wmqczp0ATiAnToH//2Q=="

        },

```
        "id": 3910,
        "userType": "I",
        "homeServer": "Void host",
        "shortName": "pgarcia",
        "primaryGroupDescription": "Music",
        "primaryGroup": "Music"
      }
   ]
}
```


2. Use the boolean operator +

Request

```
GET http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User?textFilter=fran~ +bacall
```

Response 200 OK


```
{
   "schemas": [
      "urn:ietf:params:scim:api:messages:2.0:ListResponse"
   ],
   "totalResults": 3,
   "startIndex": 1,
   "Resources": [
      {
         "lastName": "Bacall",
         "createdByUser": "ActiveDirectory",
         "fullName": "Lauren Bacall",
         "active": true,
         "userName": "lbacall",
         "mailAlias": "",
         "firstName": "Lauren",
         "createdDate": "2023-08-08 14:26:14",
         "multiSession": true,
         "meta": {
            "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/2844",
            "links": {
               "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'lbacall'+and+enabled
+eq+true",
```

```
                "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'lbacall'+and+disabled+eq+false",
                "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'lbacall'",
                "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'lbacall'",
                "effectiveGrants": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/2844/effectiveGrants"
            },
            "resourceType": "User"
        },
        "modifiedByUser": "pgarcia",
        "schemas": [
            "urn:soffid:com.soffid.iam.api.User"
        ],
        "modifiedDate": "2023-08-22 17:34:07",
        "attributes": {},
        "id": 2844,
        "userType": "I",
        "primaryGroupDescription": "Music",
        "primaryGroup": "Music"
    },
    {
        "lastName": "Sinatra",
        "createdByUser": "ActiveDirectory",
        "fullName": "Frank Sinatra",
        "active": true,
        "userName": "frank",
        "mailAlias": "",
        "firstName": "Frank",
        "createdDate": "2023-09-06 13:12:54",
        "multiSession": true,
        "meta": {
            "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276435",
            "links": {
                "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'frank'+and+enabled+eq+true",
                "groupUsers":
```

"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'frank'+and+disabled+eq+false",
"accounts": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'frank'",
"issues": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'frank'",
"effectiveGrants": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276435/effectiveGrants"
},
"resourceType": "User"
},
"modifiedByUser": "ActiveDirectory",
"schemas": [
"urn:soffid:com.soffid.iam.api.User"
],
"modifiedDate": "2023-09-06 13:12:55",
"attributes": {},
"id": 276435,
"userType": "I",
"primaryGroupDescription": "Music",
"primaryGroup": "Music"
},
{
"lastName": "Sherwood",
"createdByUser": "pgarcia",
"fullName": "Frank Sherwood",
"active": true,
"userName": "franks",
"mailAlias": "",
"firstName": "Frank",
"createdDate": "2023-10-05 15:32:40",
"multiSession": false,
"meta": {
"location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/432644",
"links": {
"roleAccounts": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'franks'+and+enabled+eq+true",
"groupUsers":

```
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'franks'+and+disabled+eq+false",
                "accounts": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'franks'",
                "issues": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'franks'",
                "effectiveGrants": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/432644/effectiveGrants"
            },
            "resourceType": "User"
        },
        "modifiedByUser": "pgarcia",
        "schemas": [
            "urn:soffid:com.soffid.iam.api.User"
        ],
        "modifiedDate": "2023-10-05 15:32:40",
        "attributes": {},
        "id": 432644,
        "userType": "I",
        "primaryGroupDescription": "scientist",
        "primaryGroup": "scientist"
    }
  ]
}
```


3. Use the boolean operator -

Request

```
GET http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User?textFilter=fran~ -Sherwood
```

Response 200 OK


```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 1,
  "startIndex": 1,
  "Resources": [
```

```
    {
        "lastName": "Sinatra",
        "createdByUser": "ActiveDirectory",
        "fullName": "Frank Sinatra",
        "active": true,
        "userName": "frank",
        "mailAlias": "",
        "firstName": "Frank",
        "createdDate": "2023-09-06 13:12:54",
        "multiSession": true,
        "meta": {
            "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276435",
            "links": {
                "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'frank'+and+enabled+
eq+true",
                "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'frank'+and+disabled+eq+fal
se",
                "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+e
q+'frank'",
                "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'frank'",
                "effectiveGrants":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276435/effectiveGrants"
            },
            "resourceType": "User"
        },
        "modifiedByUser": "ActiveDirectory",
        "schemas": [
            "urn:soffid:com.soffid.iam.api.User"
        ],
        "modifiedDate": "2023-09-06 13:12:55",
        "attributes": {},
        "id": 276435,
        "userType": "I",
        "primaryGroupDescription": "Music",
        "primaryGroup": "Music"
    }
```

```
    ]
}
```

Example 5

1. U

Request

```
GET http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User?textFilter=(firstName:aretha OR firstName:Rosalind) AND lastName:Franklin AND birthDate:1979-01-01
```

Response 200 OK


```
{
    "schemas": [
        "urn:ietf:params:scim:api:messages:2.0:ListResponse"
    ],
    "totalResults": 2,
    "startIndex": 1,
    "Resources": [
        {
            "lastName": "Franklin",
            "createdByUser": "ActiveDirectory",
            "fullName": "Aretha Franklin",
            "active": true,
            "userName": "aretha",
            "mailAlias": "",
            "firstName": "Aretha",
            "createdDate": "2023-09-06 13:12:54",
            "multiSession": true,
            "meta": {
                "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276397",
                "links": {
                    "roleAccounts": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'aretha'+and+enabled+eq+true",
                    "groupUsers": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'aretha'+and+disabled+eq+false",
```

```
                "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'aretha'",
                "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'aretha'",
                "effectiveGrants":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276397/effectiveGrants"
            },
            "resourceType": "User"
        },
        "modifiedByUser": "pgarcia",
        "schemas": [
            "urn:soffid:com.soffid.iam.api.User"
        ],
        "modifiedDate": "2023-10-05 16:02:40",
        "attributes": {
            "birthDate": "1979-01-01 00:00:00"
        },
        "id": 276397,
        "userType": "I",
        "primaryGroupDescription": "World",
        "primaryGroup": "world"
    },
    {
        "lastName": "Franklin",
        "createdByUser": "ActiveDirectory",
        "fullName": "Rosalind Franklin",
        "active": true,
        "userName": "rfranklin",
        "mailAlias": "",
        "firstName": "Rosalind",
        "createdDate": "2023-08-08 14:26:14",
        "multiSession": true,
        "meta": {
            "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/2862",
            "links": {
                "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'rfranklin'+and+enabled+eq+true",
                "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'rfranklin'+and+disabled+eq
```

```
+false",
                "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'rfranklin'",
                "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'rfranklin'",
                "effectiveGrants": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/2862/effectiveGrants"
            },
            "resourceType": "User"
        },
        "modifiedByUser": "pgarcia",
        "schemas": [
            "urn:soffid:com.soffid.iam.api.User"
        ],
        "modifiedDate": "2023-10-05 16:03:02",
        "attributes": {
            "birthDate": "1979-01-01 00:00:00"
        },
        "id": 2862,
        "userType": "I",
        "primaryGroupDescription": "scientist",
        "primaryGroup": "scientist"
    }
  ]
}
```


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