

Searching for Data via the CLU

If your user account has the Read permission level on a data file in DME, you can search for that data. You can generate a list of such data files that match a search query. You can also specify a search path to narrow the search. The list provides the full path to each file in DME.

New collections and data files appear in search results 30-60 minutes after they were created.

To search for data:

1. In your local system, create a JSON file that specifies a search query. For more information, refer to [Building a Query to Search for Data via the CLU](#).
2. Run the following command:

```
dm_query_dataobject [-D REST-response] [-o output-file] <criteria.json> [search-path]
```

The following table describes each parameter:

Parameter	Description
[-D <REST-response>]	An optional parameter, specifying a path and filename in your local system. The system always creates a response file: <ul style="list-style-type: none">• If you specify this parameter, the system saves the response from the server to the specified file in the specified location.• If you omit this parameter, the system saves the file as query-dataobject-response-header.tmp in your home directory.
[-o <output-file>]	An optional parameter, specifying a path and filename in your local system. The system always creates a query output file: <ul style="list-style-type: none">• If you specify this parameter, the system saves the query output to the specified file in the specified location.• If you omit this parameter, the system prints the query output to standard output and saves the file as query-dataobject-response-message.json.tmp in your home directory.
<criteria.json>	A path and filename for a JSON file in your local system, containing the compound query for the search.
[search-path]	An optional parameter, specifying the path to the collection in DME in which you want to search.

For example, consider the following criteria.json file. When you perform a query, the system requires it in the context of a compoundQuery element with a join operator, even if it contains only one simple query.

```
{
  "compoundQuery": {
    "operator": "AND",
    "queries": [
      {
        "attribute": "source_file_size",
        "value": "10",
        "operator": "NUM_LESS_OR_EQUAL"
      }
    ]
  },
  "detailedResponse": false,
  "page": 1,
  "totalCount": true
}
```

With the above criteria.json file, the following command generates a list of data files in DME, in Project_1 and subcollections, that are size 10 or smaller. The output provides a total count of results and lists only the first page (the first 100 paths).

```
dm_query_dataobject criteria.json /Example_Archive/PI_Lab1/Project_1
```

To generate the second page (the second 100 paths), set the page indicator to 2. To generate a list with metadata, set detailedResponse to true.