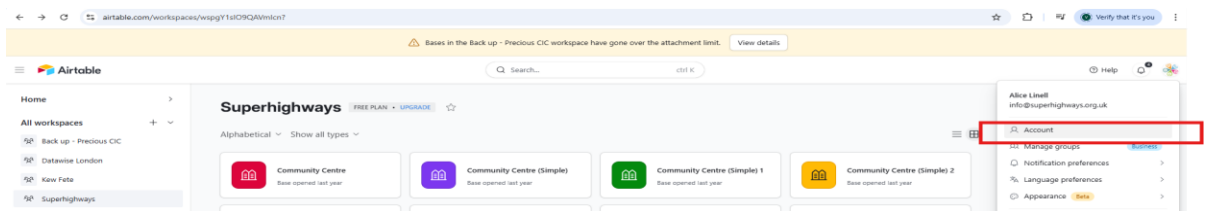


How to connect Airtable to Power BI (including Pagination)

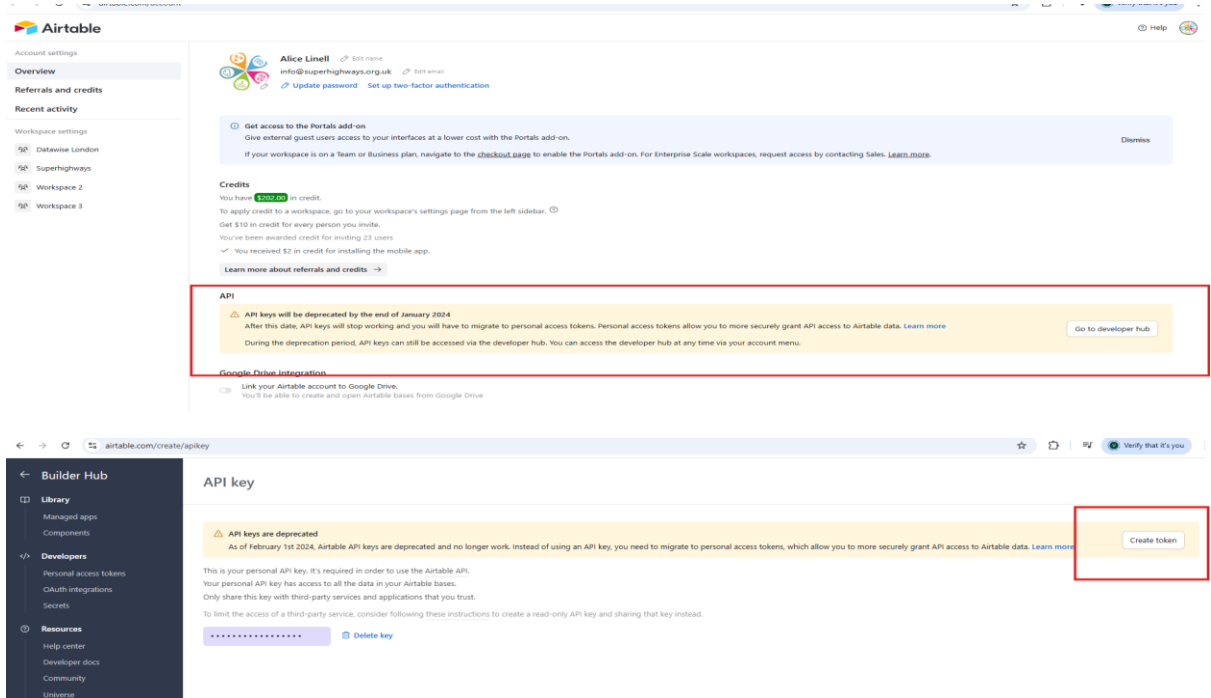
This guide will walk you through creating an Airtable API token, retrieving the necessary IDs, and importing data into Power BI, including handling pagination for tables with more than 100 records.

Steps to Create the Token

1. Go to <https://airtable.com/account>

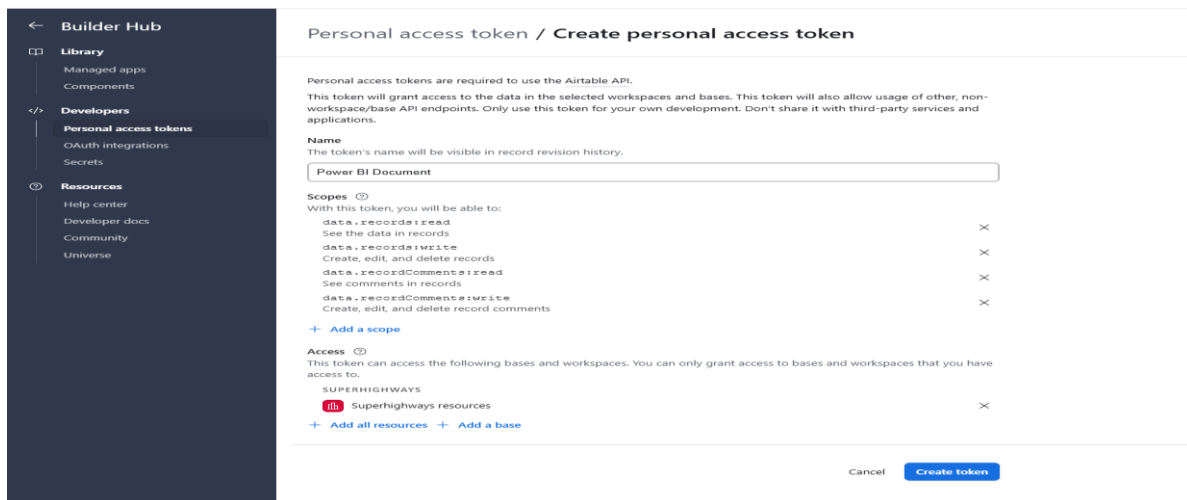


2. Find the "API" section, click on go to developer hub , click on create token.



3. You'll now see fields for Name, Scopes, and Access, explained below.

- **Name:** Enter a clear name (e.g., *Power BI Document*), used for tracking.
- **Scopes:** Select only necessary permission
- **Access:** Grant access to the specific base you want (e.g., *Superhighways*).



Personal access token / Create personal access token

Personal access tokens are required to use the Airtable API. This token will grant access to the data in the selected workspaces and bases. This token will also allow usage of other, non-workspace/base API endpoints. Only use this token for your own development. Don't share it with third-party services and applications.

Name
The token's name will be visible in record revision history.
Power BI Document

Scopes
With this token, you will be able to:

data.records:read	See the data in records	☐
data.records:write	Create, edit, and delete records	☐
data.recordComments:read	See comments in records	☐
data.recordComments:write	Create, edit, and delete record comments	☐

+ Add a scope

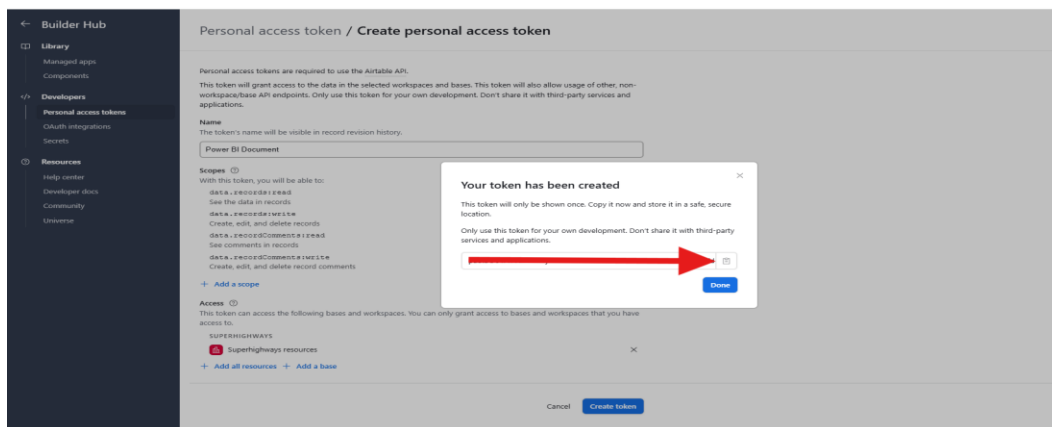
Access
This token can access the following bases and workspaces. You can only grant access to bases and workspaces that you have access to.

SUPERHIGHWAYS

☒ Superhighways resources ☐

+ Add all resources + Add a base

Cancel **Create token**



Personal access token / Create personal access token

Personal access tokens are required to use the Airtable API. This token will grant access to the data in the selected workspaces and bases. This token will also allow usage of other, non-workspace/base API endpoints. Only use this token for your own development. Don't share it with third-party services and applications.

Name
The token's name will be visible in record revision history.
Power BI Document

Scopes
With this token, you will be able to:

data.records:read	See the data in records	☐
data.records:write	Create, edit, and delete records	☐
data.recordComments:read	See comments in records	☐
data.recordComments:write	Create, edit, and delete record comments	☐

+ Add a scope

Access
This token can access the following bases and workspaces. You can only grant access to bases and workspaces that you have access to.

SUPERHIGHWAYS

☒ Superhighways resources ☐

+ Add all resources + Add a base

Cancel **Create token**

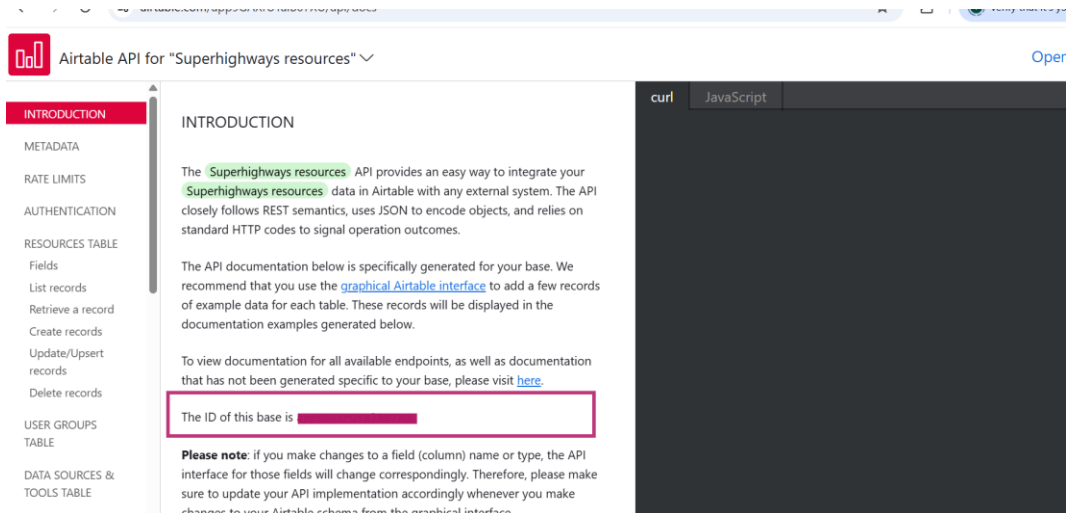
Your token has been created

This token will only be shown once. Copy it now and store it in a safe, secure location. Only use this token for your own development. Don't share it with third-party services and applications.

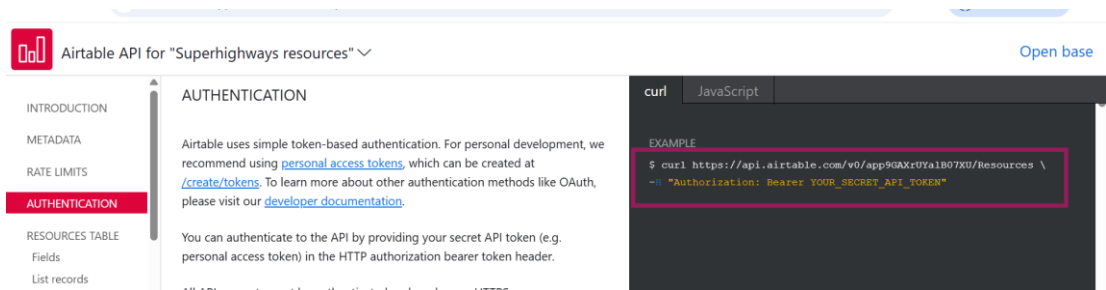
 **Copy**

Get Base ID and Table Name

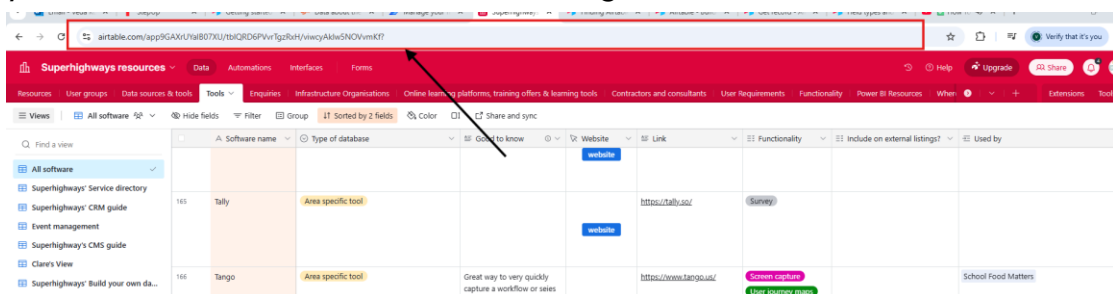
- Go to <https://airtable.com/developers/web/api/introduction>
- Select your base from the list
- At the top of the page, copy the Base ID (e.g., app9GAX4546rUYaIB07XU35)



- The Table Name (e.g., Resources) appears in sections like "List records" or "Authentication"



- Note: The Table ID (e.g., tblIQRD6PVvrTgzRxH) is not shown here, but you can find it in the URL when viewing a table in Airtable.



- When you open a specific table in Airtable, the URL in your browser contains useful information you'll need for API access.

- Example URL:

<https://airtable.com/app9GAXrUYaIB07XU/tblQRD6PVvrTgzRxH/viwcYAkIw5NOVvmKf>

Breakdown:

- **Base ID:** app9GAXrUYaIB07XU
- **Table ID:** tblQRD6PVvrTgzRxH

You can extract these directly from the URL when viewing your table in Airtable.

Example API Call

```
curl "https://api.airtable.com/v0/{baseId}/{tableIdOrName}/{recordId}" \
  app9GAXrUYaIB07XU
tblQRD6PVvrTgzRxH
```

-H "Authorization: Bearer YOUR_TOKEN"

You only use the **Base ID** and **Table ID** in API calls, not the full Airtable URL.

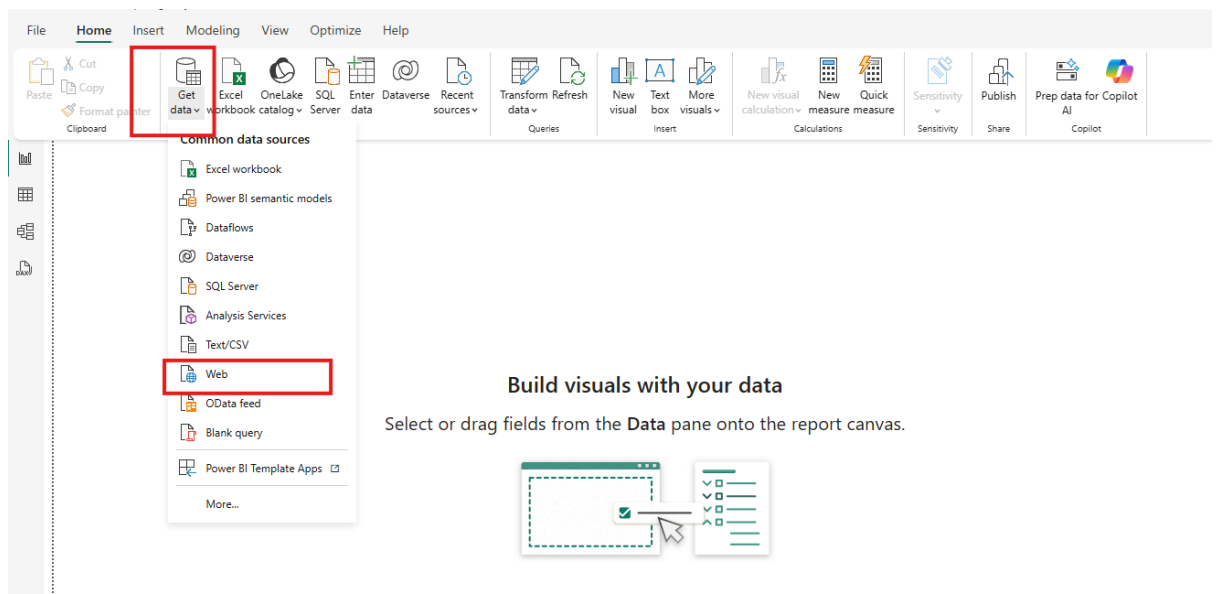


airtable.com/app9GAXrUYaIB07XU/tblQRD6PVvrTgzRxH/viwcYAkIw5NOVvmKf?blocks=hide

Load Airtable Data into Power BI

Once the API URL is ready, follow these steps in Power BI:

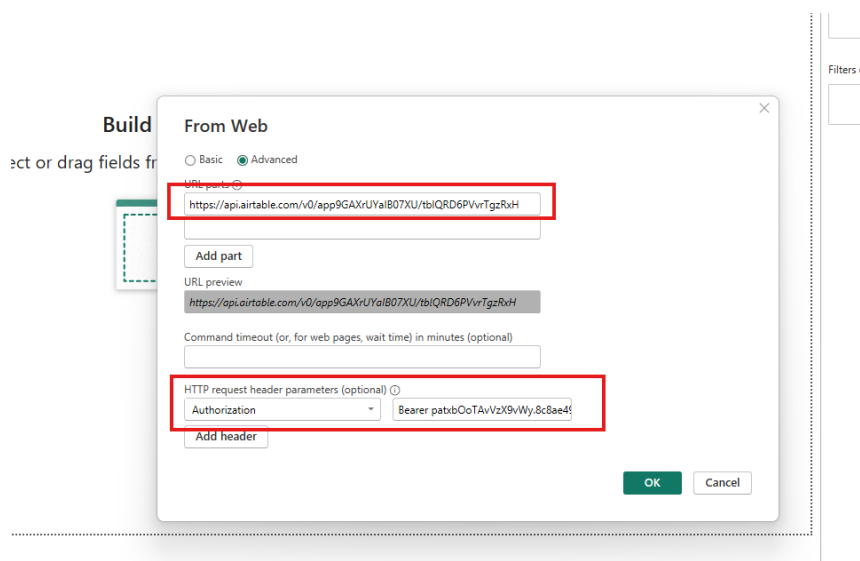
1. Open Power BI Desktop
2. Go to Home > Get Data > Web



3. Choose the Advanced option
4. In URL parts, paste your full Airtable API URL,

e.g.:

<https://api.airtable.com/v0/app9GAXrUYaIB07XU/tblQRD6PVvrTgzRxH>





5. Under HTTP request header parameters, set:

- Key: Authorization
- Value: Bearer YOUR_API_TOKEN

6. Click OK

Power BI will fetch your data from Airtable. You can then transform the JSON using the Power Query Editor to expand the records and fields for reporting.

Record Limit and Pagination in Airtable

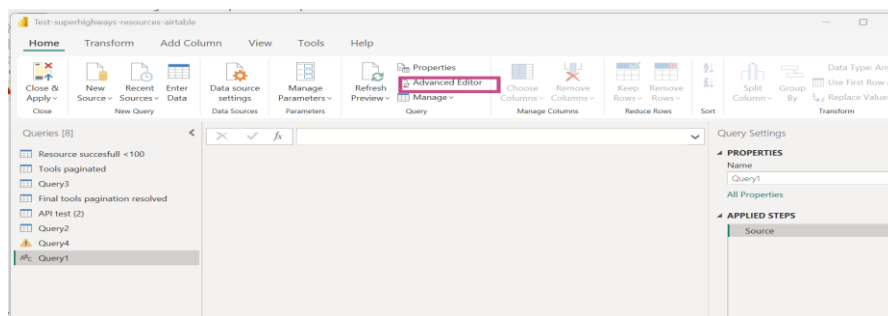
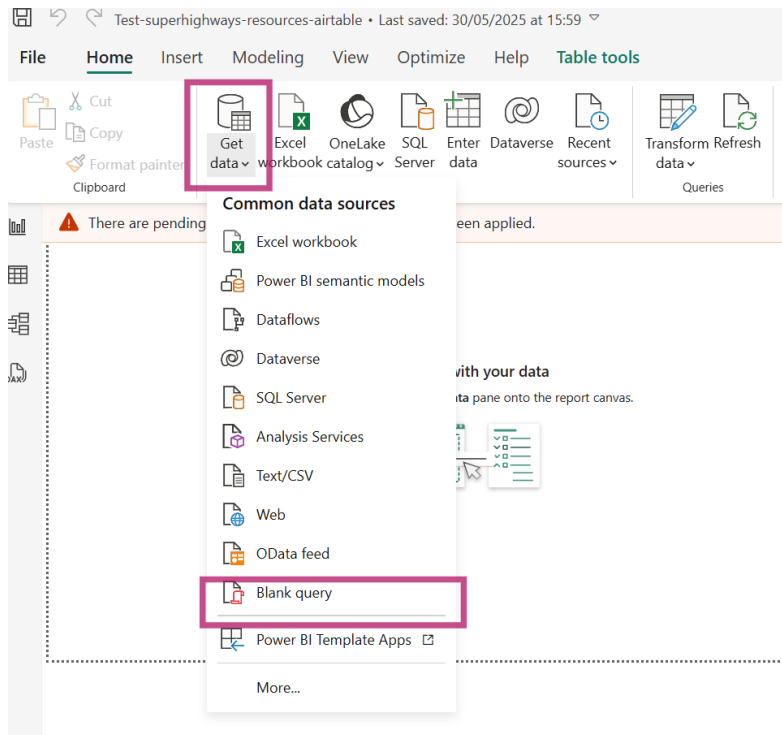
Airtable's API only returns up to 100 records per request by default. If your table has more than 100 records, you won't get all the data unless you handle pagination.

When there are more records, Airtable includes an "offset" value in the response. This value is needed to fetch the next page of records.

How to Handle Pagination in Power BI

Power BI doesn't handle this automatically, so you need to create a loop using Power Query (M Language). Here's the basic idea:

1. Click on get Data > Blank Query > Advanced editor > copy the code below by replacing your IDs and urls



Paste and customize the following code:

```
let
  baseId = "YOUR BASE ID",
  tableId = "YOUR_TABLE_ID",
  apiKey = "Bearer YOUR_TOKEN",
  baseUrl = "https://api.airtable.com/v0/" & baseId & "/" & tableId,

  GetPage = (url) =>
    let
      response = Json.Document(Web.Contents(url, [Headers =
[Authorization = apiKey]])),
      records = response[records],
      offset = try response[offset] otherwise null
    in
      [Records = records, Offset = offset],

  AllPages =
    List.Generate(
      () => [Page = GetPage(baseUrl), Done = false],
      each not [Done],
      each [
        Page = GetPage(
          if [Page][Offset] <> null then baseUrl & "?offset=" &
Text.From([Page][Offset]) else ""
        ),
        Done = [Page][Offset] = null
      ],
      each [Page][Records]
    ),

  Combined = List.Combine(AllPages)
in
  Table.FromRecords(Combined)
```

Advanced Editor

Query5

```
let
    baseUrl = "https://api.airtable.com/v0/" & baseId & "/" & tableId,
    apiKey = "Bearer [redacted]",
    getPage = (url) =>
        let
            response = Json.Document(Web.Contents(url, [Headers = [Authorization = apiKey]])),
            records = response[records],
            offset = try response[offset] otherwise null
        in
            [Records = records, Offset = offset],
    AllPages =
        List.Generate(
            () => [Page = GetPage(baseUrl), Done = false],
            each not [Done],
            each [
                Page = GetPage(
                    baseUrl & "&offset=" & Page[Offset] & "&cursor=" & Page[Records][LastRecordId]
                )
            ]
        )
    AllRecords = List.Combine(AllPages[Records])
    AllRecords
```

✓ No syntax errors have been detected.

Done Cancel

2. Start with the base API URL (with your Base ID and Table Name/ID).
3. Use a loop to keep calling the API with the offset parameter until there are no more records.
4. Append the results together into a single table.
5. Your data will need to expand the section below in order to fetch more than 100 records.

sources Parameters Query Manage Columns Reduce Rows Sort

fx = let

	ABC 123 id	ABC 123 createdTime	fields
1	rec0UOERFIycgnyq	2023-04-12T10:33:16.000Z	Record
2	rec0XwixZ76y8WZDk	2023-04-12T10:33:16.000Z	Record
3	rec0ySieZRKgnDv5Y	2023-07-31T09:11:38.000Z	Record
4	rec1XqkSKwixyEbZ	2023-04-12T10:33:16.000Z	Record
5	rec1nY4uowMxU8q8R	2023-04-12T10:33:16.000Z	Record
6	rec2BoQXKns7djsFp	2023-04-12T10:33:16.000Z	Record
7	rec2hzjgWuDPECDma	2023-04-12T10:33:16.000Z	Record
8	rec3Rlp4nNLp7qvfi	2023-04-12T10:33:16.000Z	Record
9	rec4PFgsrHLeKcgMY	2023-04-12T10:33:16.000Z	Record
10	rec4VSL25BXDKj5op	2023-04-25T10:41:33.000Z	Record
11	rec58PBHQhTREmkra	2023-04-12T10:33:16.000Z	Record
12	rec5iLh1mG77Fd7q7	2023-04-12T10:33:16.000Z	Record
13	rec7VYTqI30Et30kK	2023-04-12T10:33:16.000Z	Record
14	rec83V2VbZAJVrOvv	2023-04-12T10:33:16.000Z	Record
15	rec8FOx70h4e3uAn	2023-04-12T10:33:16.000Z	Record

Parameters | Query | Manage Columns | Reduce Rows | Sort

fx = let

id	createdTime	fields
1	rec0UOERFifcgnvq	
2	rec0XwixZ76y8WZDk	
3	rec0ySieZRKgnDv5Y	
4	rec1XqkSkwixyyEbz	
5	rec1nY4uowMxU8q8R	
6	rec2BoQXKns7djsFp	
7	rec2hzjgWuDPEcDma	
8	rec3Rlp4nNLP7qvfi	
9	rec4PFgsrHLeKcgMY	
10	rec4VSL25BXDKj5op	
11	rec58PBHQhTREmkra	
12	rec5ilH1mG77Fd7q7	
13	rec7VYTqI30Et3OkK	
14	rec83V2VbZAJvOvv	
15	rec8EQxAZOb4e3uAp	
16	rec8g8gLSolrUt1x2	2023-04-12T10:33:16.000Z Record
17	rec8qc9n85iPXVqq4	2023-08-24T10:41:02.000Z Record
18	rec8ymZNMl8gIGdXk	2023-04-12T10:33:16.000Z Record
19	rec9NIBdSVtQpNYGS	2023-04-12T10:33:16.000Z Record

☒ (Select All Columns)
☒ Software name
☒ Type of database
☒ Functionality
☒ Link
☒ Website
☒ Go to site
☒ Who's using it?
☒ Use original column name as prefix

⚠ List may be incomplete. [Load more](#)

OK Cancel

6. Now you can see that we're able to fetch more than 100 records as the data has been expanded.

fx = Table.ExpandRecordColumn(Query5, "fields", {"Software name", "Type of database", "Functionality", "Link", "Website", "Go to site", "Who's using it?"})

id	createdTime	fields.Software name	fields.Type of database	fields.Functionality	fields.Link	fields.Website	fields.Go to site	fields.Who's using it?
1	rec0UOERFifcgnvq	Draw	Area specific tool	List	https://			
2	rec0XwixZ76y8WZDk	Venngage	Area specific tool	List	https://			
3	rec0ySieZRKgnDv5Y	Voice		null List	https://			
4	rec1XqkSkwixyyEbz	Google Data Studio	Area specific tool	List	https://			
5	rec1nY4uowMxU8q8R	Xero	Area specific tool	List	https://			
6	rec2BoQXKns7djsFp	Raw Graphs	Area specific tool	List	https://			
7	rec2hzjgWuDPEcDma	Eventbrite	Area specific tool	List	https://			
8	rec3Rlp4nNLP7qvfi	Open Heat Map		null List	http://v			
9	rec4PFgsrHLeKcgMY	Pandas		null List	http://v			
10	rec4VSL25BXDKj5op	Access	Build your own (no code/low code)	List	https://			
11	rec58PBHQhTREmkra	LASA AIMS		null	http://v			
12	rec5ilH1mG77Fd7q7	High Charts		null List	https://			
13	rec7VYTqI30Et3OkK	Views	Off the shelf All rounder	List	https://			
14	rec83V2VbZAJvOvv	Survey Monkey	Area specific tool	List	https://			
15	rec8EQxAZOb4e3uAp	Power BI	Area specific tool	List	https://			
16	rec8g8gLSolrUt1x2	Ushahidi	Area specific tool	List	https://			
17	rec8qc9n85iPXVqq4	Idloom		null List	https://			
18	rec8ymZNMl8gIGdXk	Doorbell	Area specific tool	List	https://			
19	rec9NIBdSVtQpNYGS	Deskpro	Area specific tool	List	https://			

COLUMNS: 200 ROWS: Column profiling based on top 1000 rows

7. Wherever you see a column like this, those columns can be expanded.

[illegible]