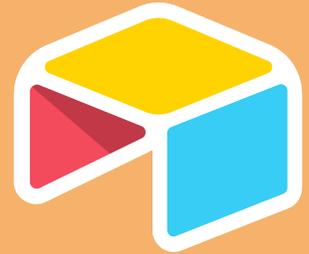


Data Collection User Manual



p



Airtable
Google Sheets
&
Pipedream



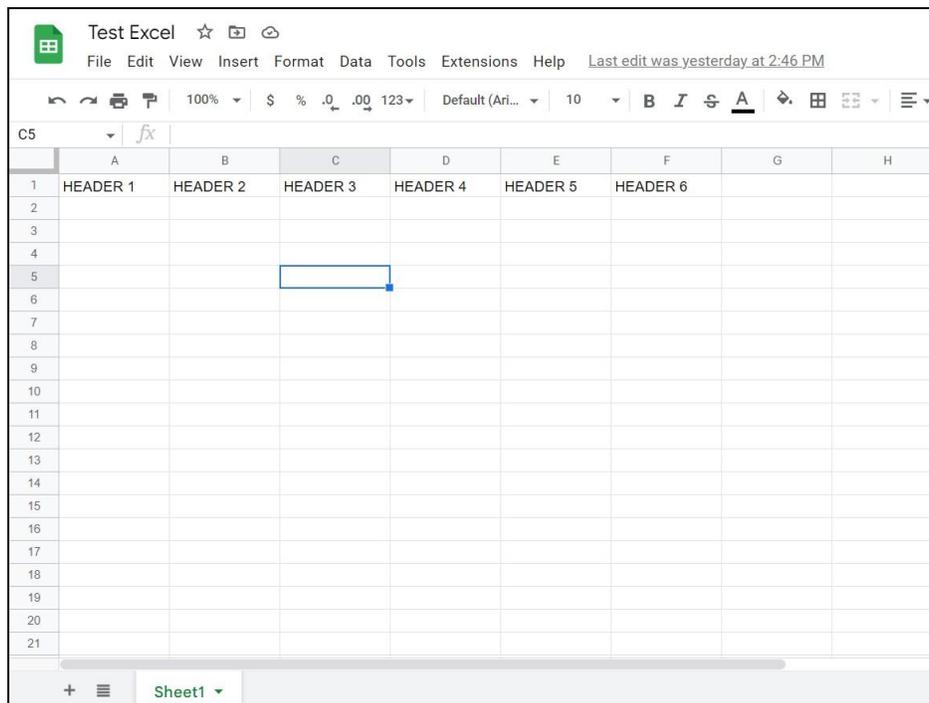
WPI

Table Of Contents

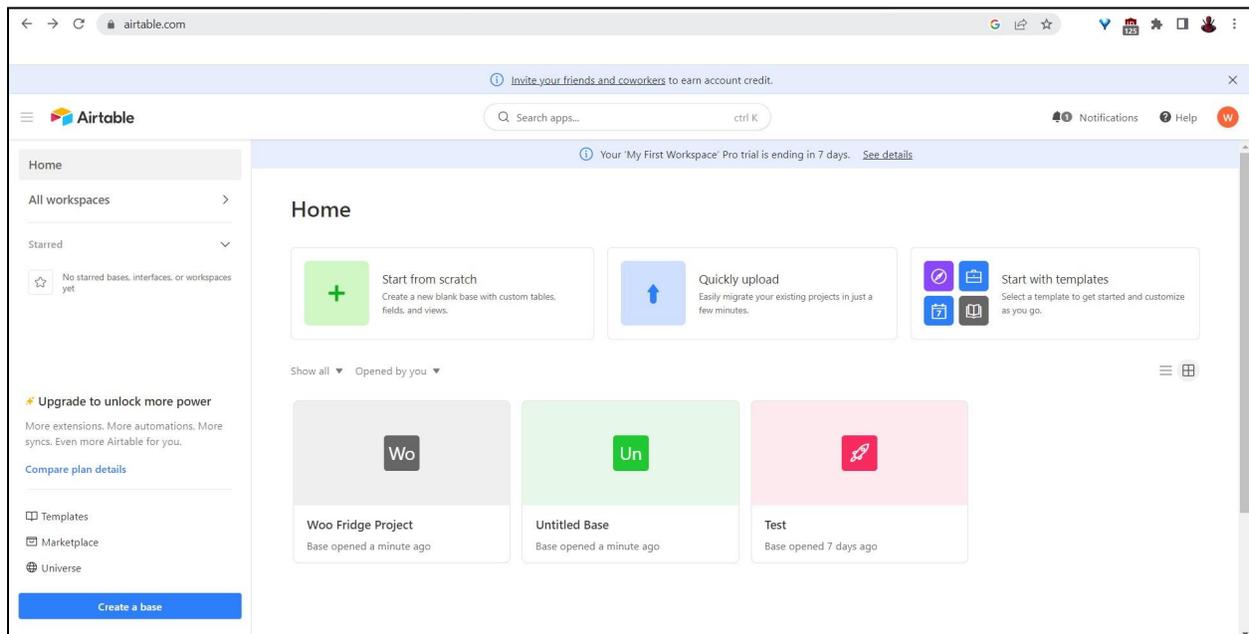
Setting Up Google Sheets	1
Setting Up Air Table Survey	2
Make Survey Questions	5
Making Automations	8
Setting Up Pipedream	15
Disclaimer	15
Getting Started/Creating a Trigger	15
Processing Multiple Images	16
Applying Content Moderation	17
Rehosting Images on Imgur	23
Updating Cell With New Imgur Link	24
Creating Discord Embed	25
Deleting Entry From Airtable	27
Sending Out the Discord Message	28
Deploying the Pipedream	29

Setting Up Google Sheets

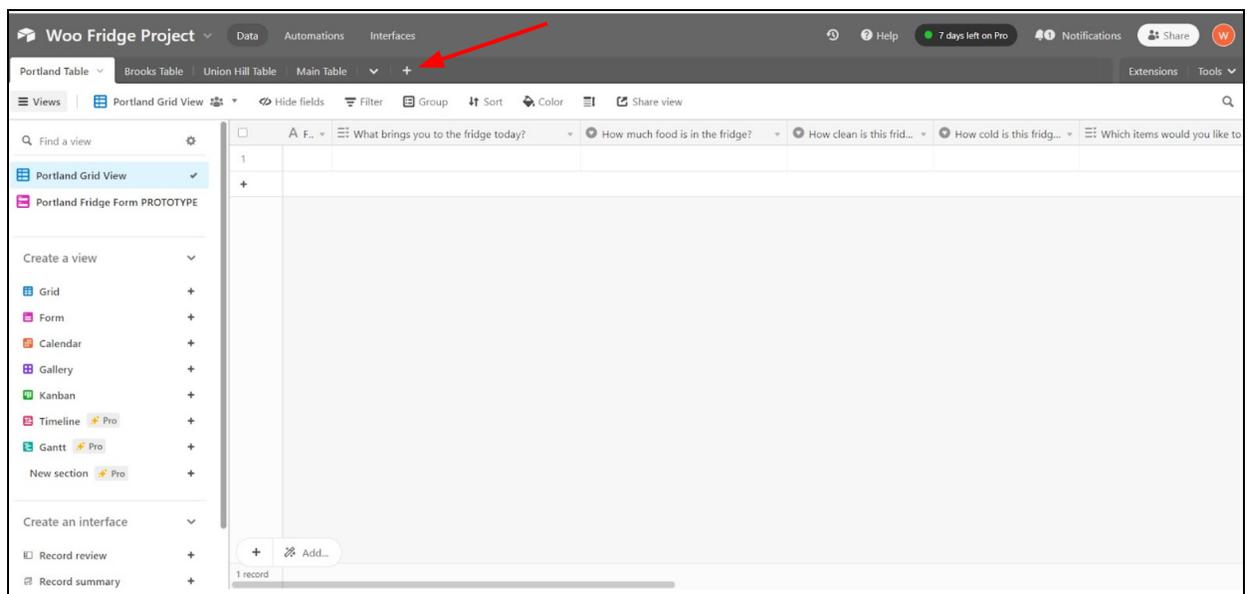
- 1) Create a Google Sheet
 - a) If adding to an existing sheet, create a new tab instead
- 2) Name the tab whatever you'd like, we recommend naming them "AT [Fridge Name]"
- 3) The first row in the sheet is your header
 - a) Each column is its own individual survey question.
- 4) Copy and paste our headers below (Recommended)
 - a) What brings you to the fridge today?
 - b) How much food is in the fridge?
 - c) How clean is this fridge?
 - d) How cold is this fridge?
 - e) Which items would you like to see in the fridge more?
 - f) Any additional comments you would like to share with us?
 - g)  Share a photo of the inside of the fridge and/or pantry.
 - h) Name
 - i) Timestamp
 - j) RecordID



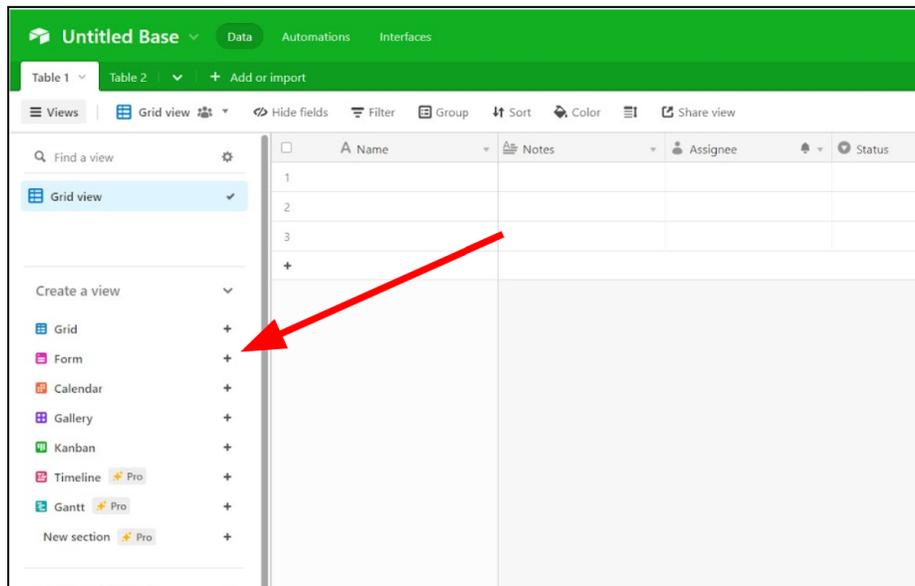
Setting Up Air Table Survey



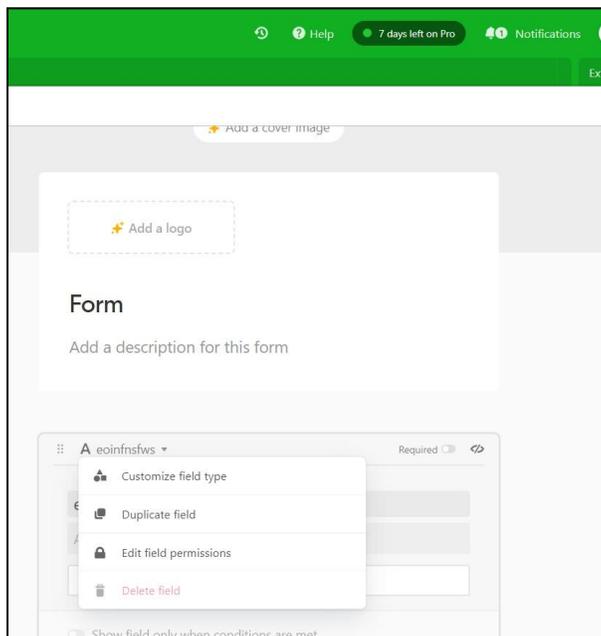
- 5) In Airtable, select “Start from scratch” to create a new project or open a previously created project (e.g., “Woo Fridge Project”).
 - a) If starting on a previously created project, select the “+” at the bar at the top of the screen before proceeding
 - b) Then select “Create Blank Table”



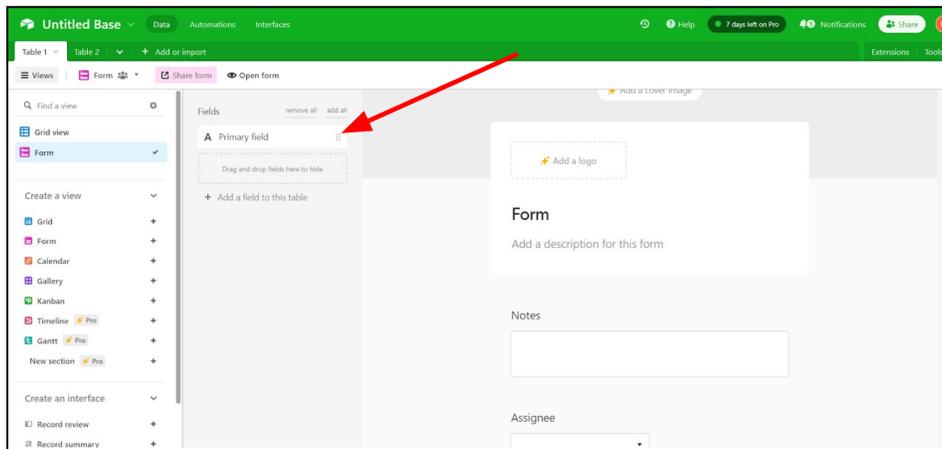
- 6) Click add Form on the left hand side



- 7) Rename the primary field (hint: This might be preset as “Name.”)
 - a) Click on the field to enter edit mode
 - b) Click on the name of the field in the top left
 - c) Click on customize field type
 - d) Then rename the field to “Primary Field”

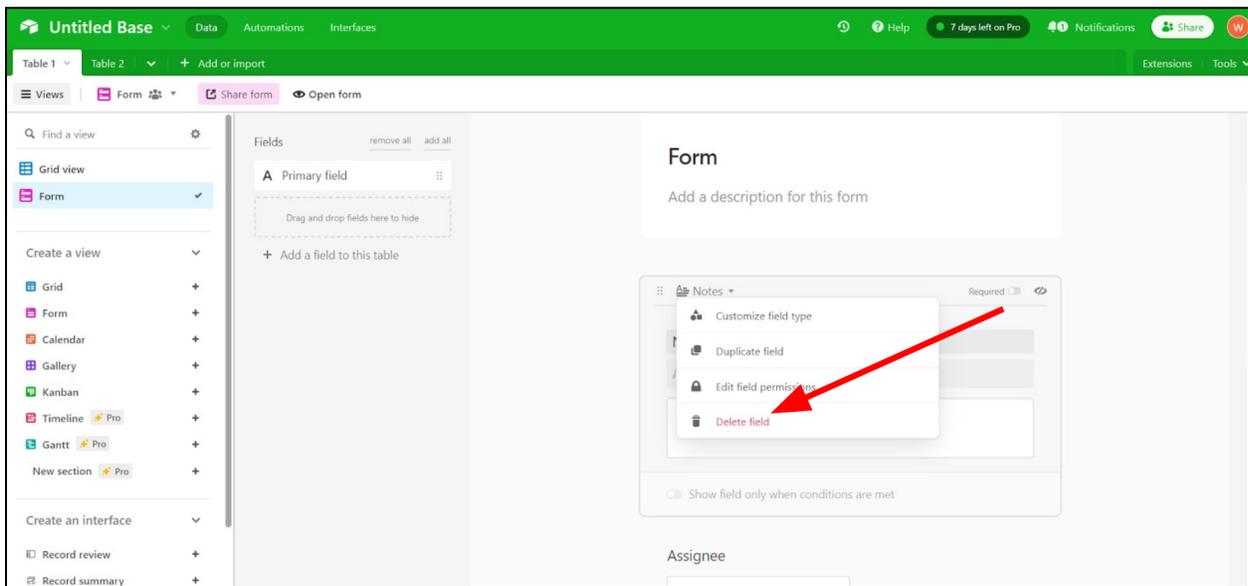


- 8) Drag it to the “Fields” sidebar



9) Delete other fields

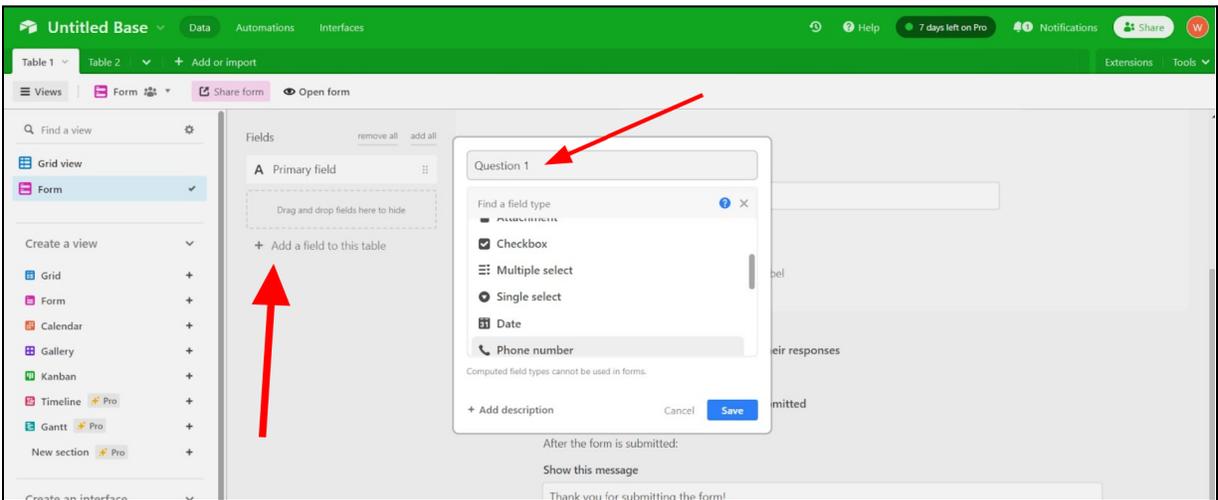
- a) Click on the field to enter edit mode
- b) Click on the name of the field in the top left
- c) Select delete field



Make Survey Questions

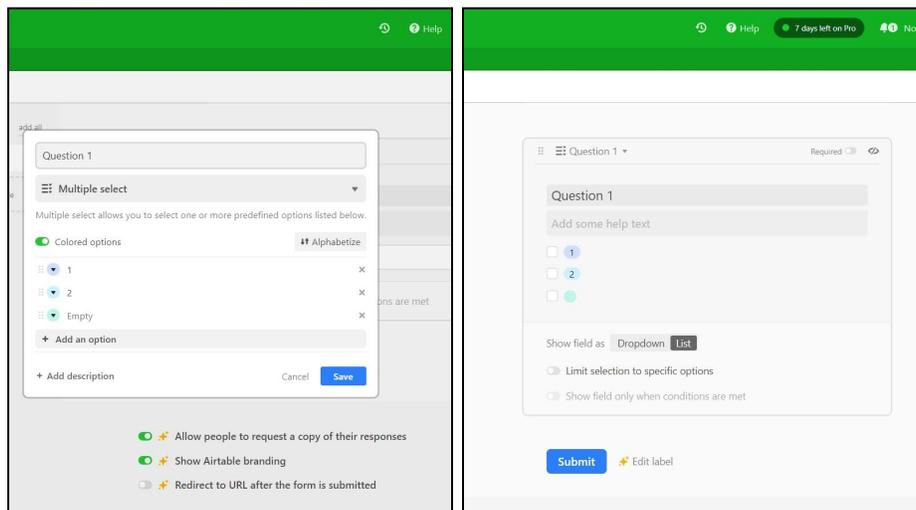
10) To create a new field

- a) Click add field to this table
- b) Name the field
- c) Select the field type from the drop down menu



i) If field type contains multiple options (i.e multiple choice, select all that apply, etc)

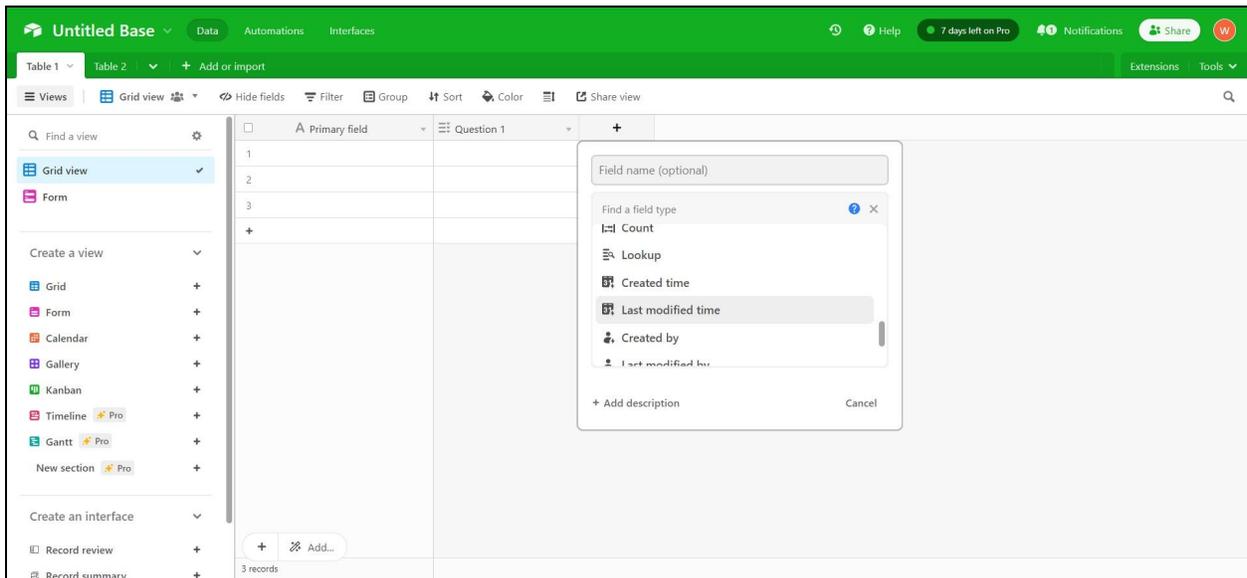
- (1) Then add all options and hit save
- (2) Click on the field to enter edit mode
- (3) Change “show field as” from “dropdown” to “list”



d) If question should be required then turn it on in the top right

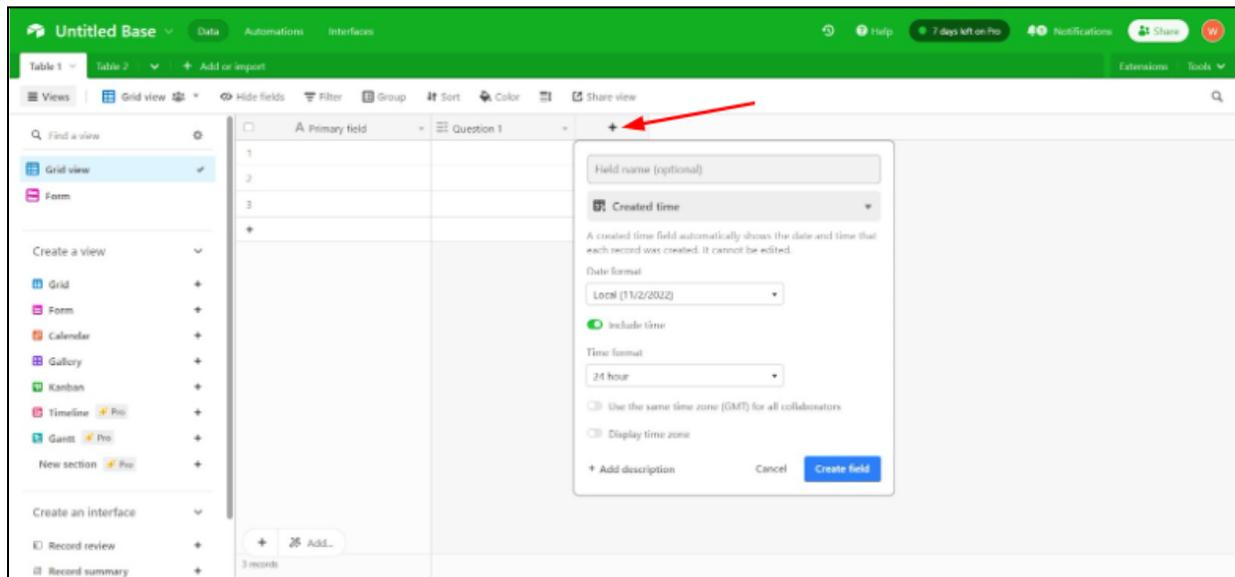
11) Once form is completed, click on “Grid View” on the left side bar

12) Click on add field button denoted by the “+” symbol at the far right of the header



a) Select field type “Created Time” in the dropdown menu, name the field “Created”

b) Select the time format to 24-hour, then click create field



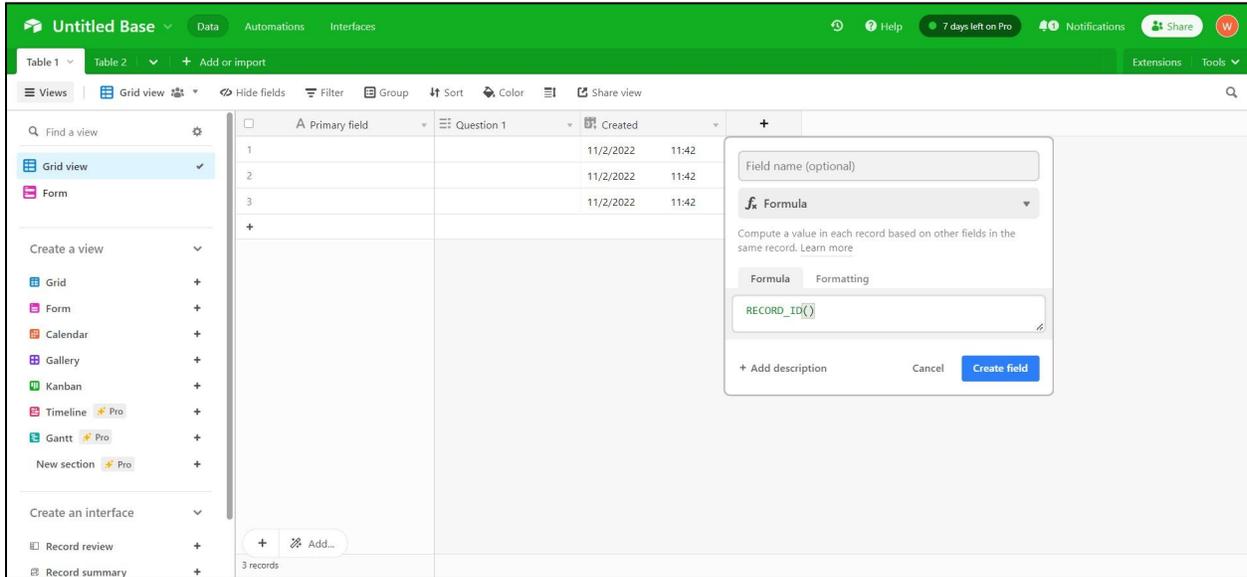
13) Click on the “Add Field” button once more

14) Select the field type “Formula”

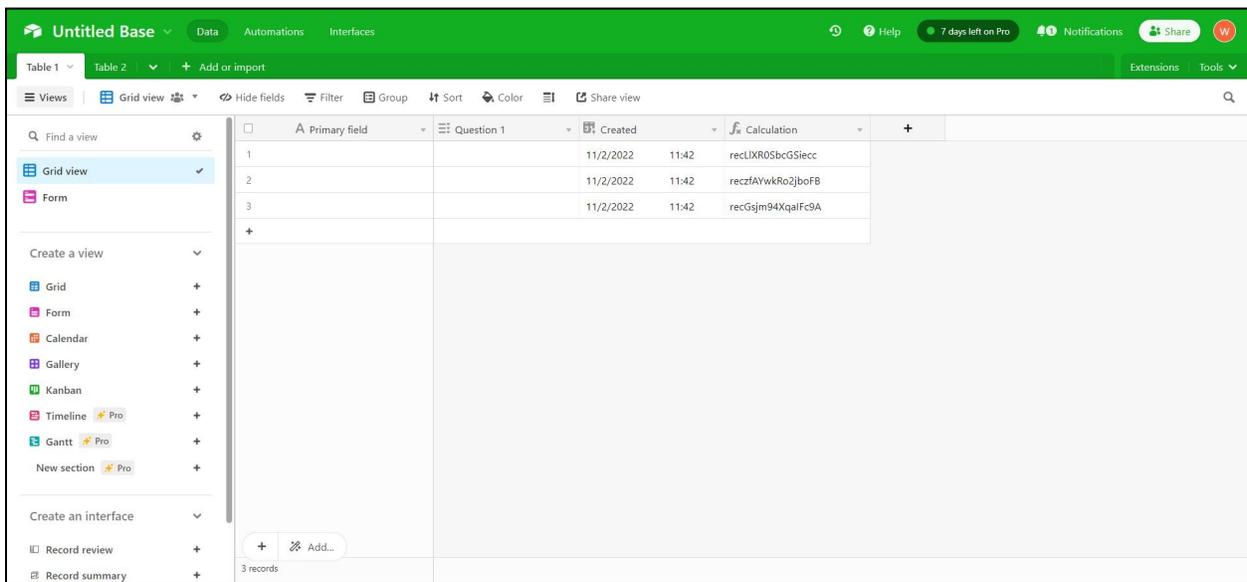
a) Name the field “RecordID”

b) In the formula box type “RECORD_ID()”

c) Then click create field

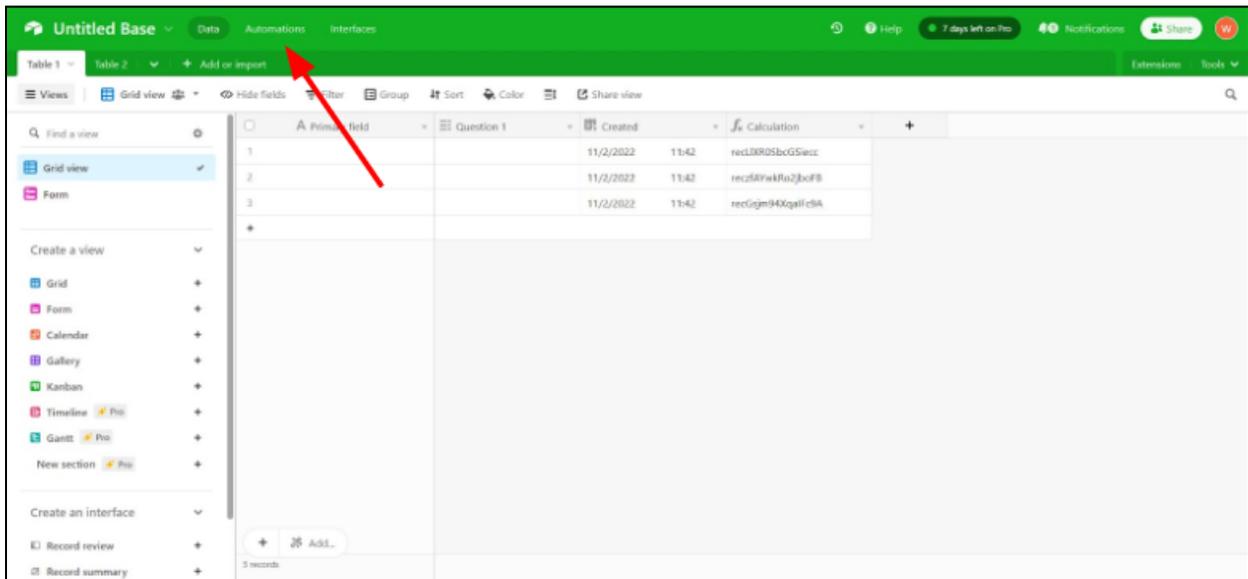


The Columns you created should look like this

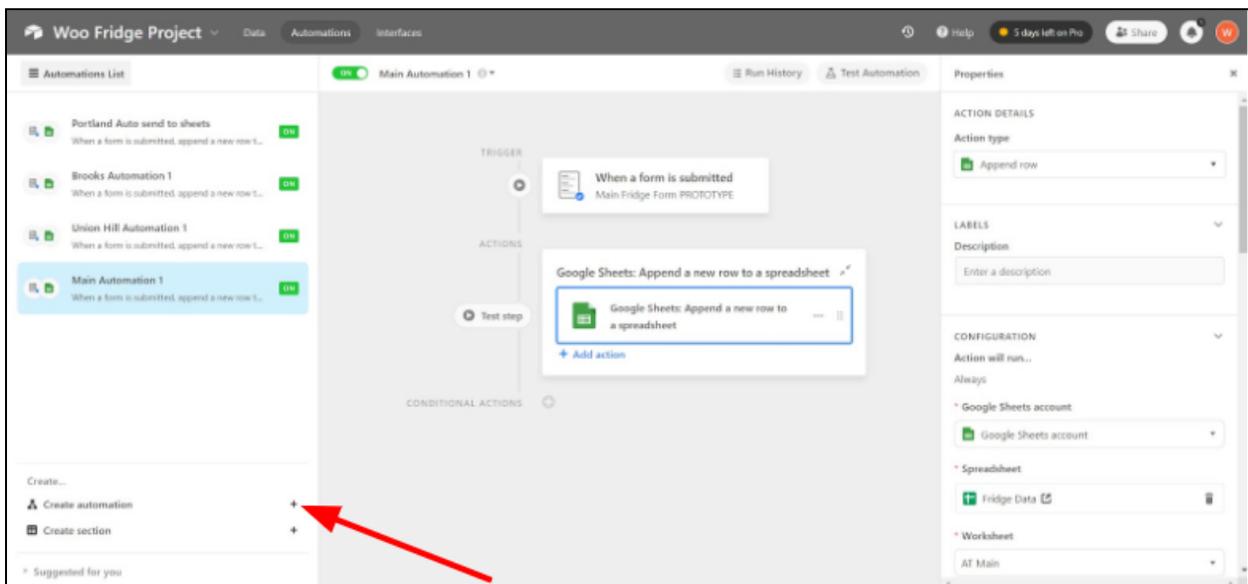


Making Automations

15) Click on “Automations” tab at the top of the screen

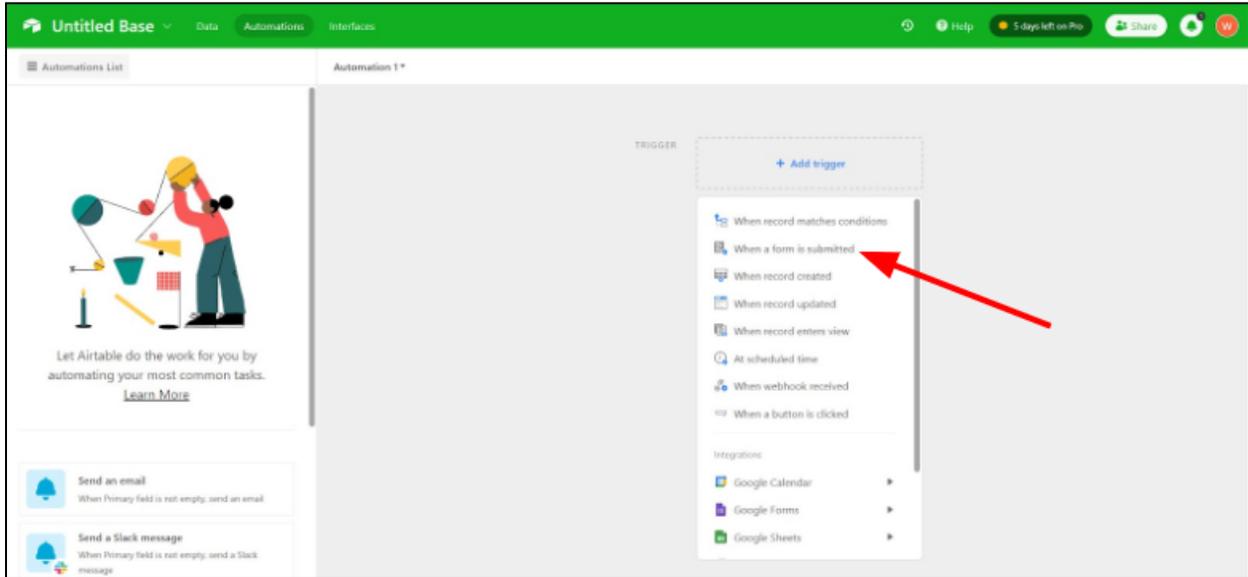


a) If there are pre-existing automations, you need to click “Create Automation” in the bottom left

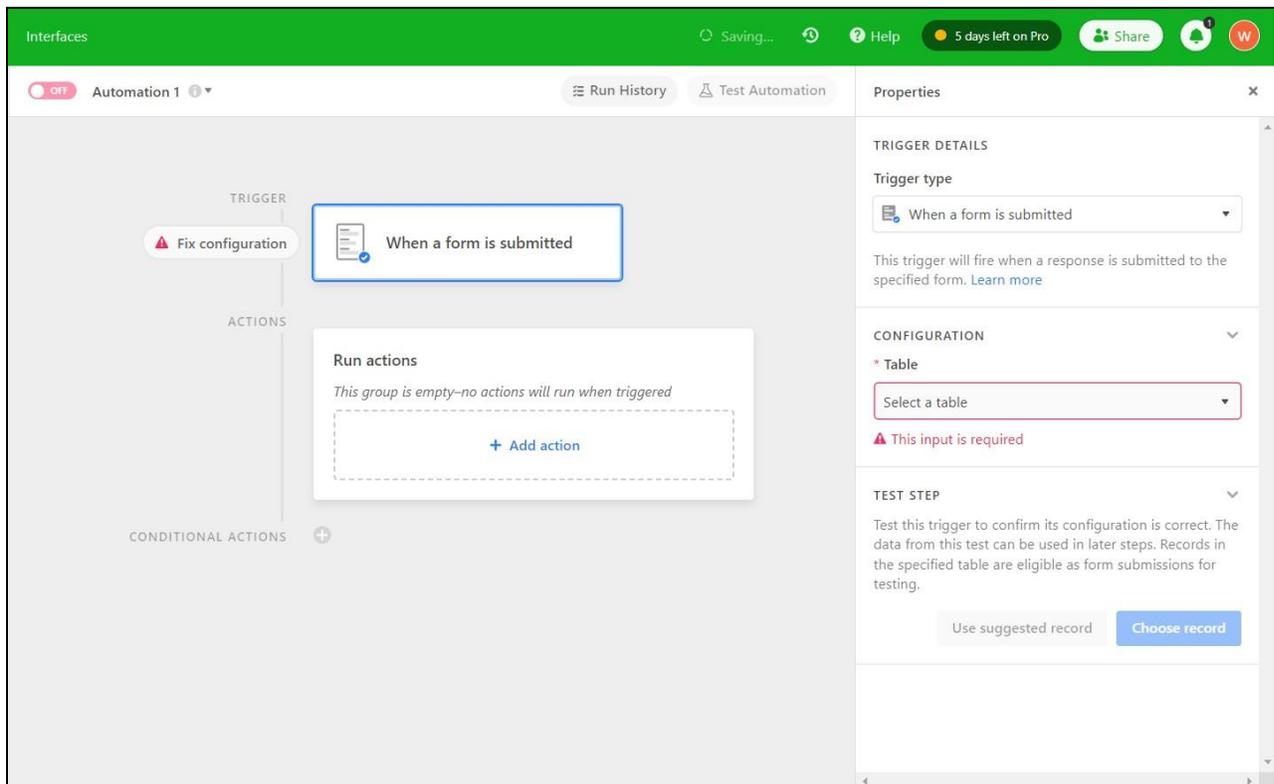


16) Click “+ Add Trigger”

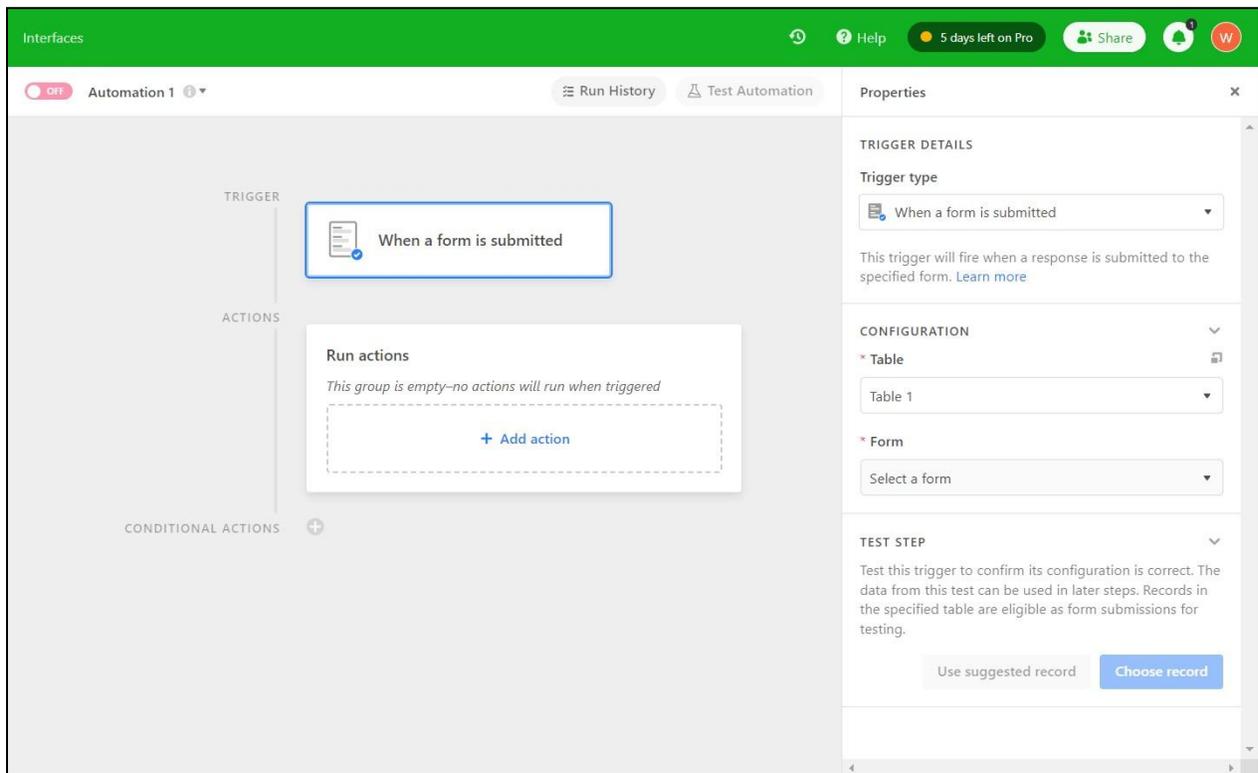
a) Select “When form is submitted”



17) In the right bar, select the table that was created, (First form created should be defaulted under “Table 1”)

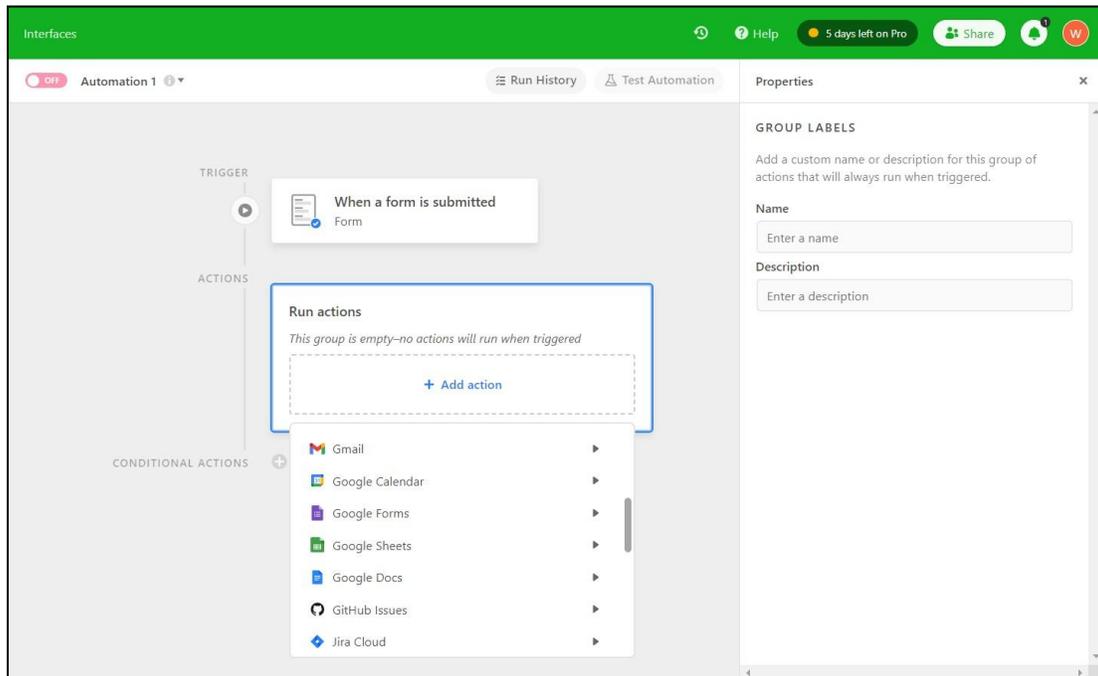


18) Select the form that was just created



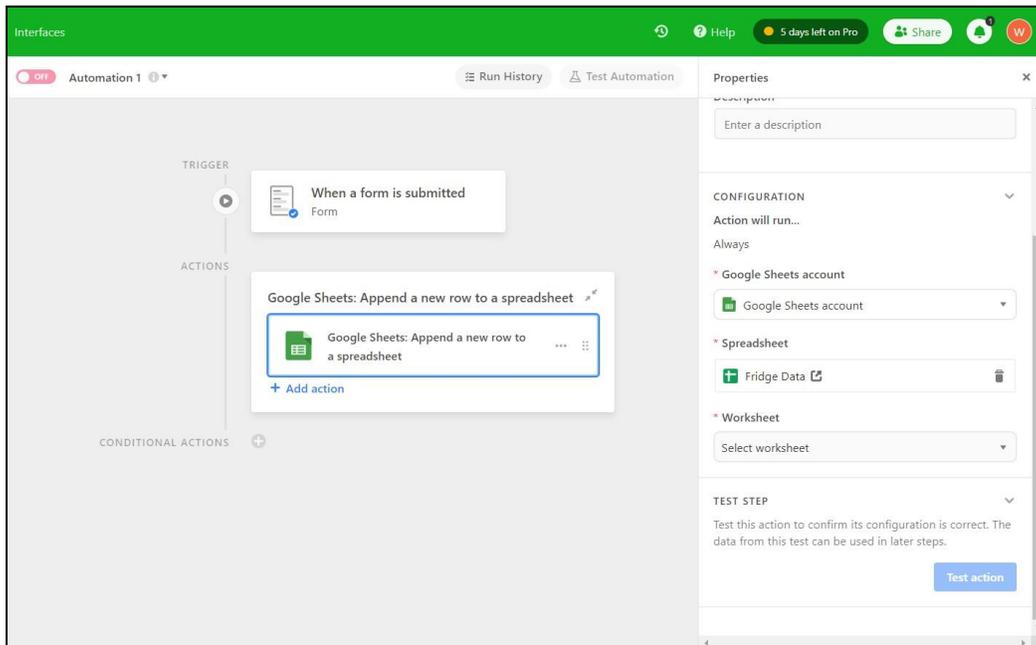
19) Click “+ Add Action”

a) Select Google Sheets then “Append Row” from the drop down menu

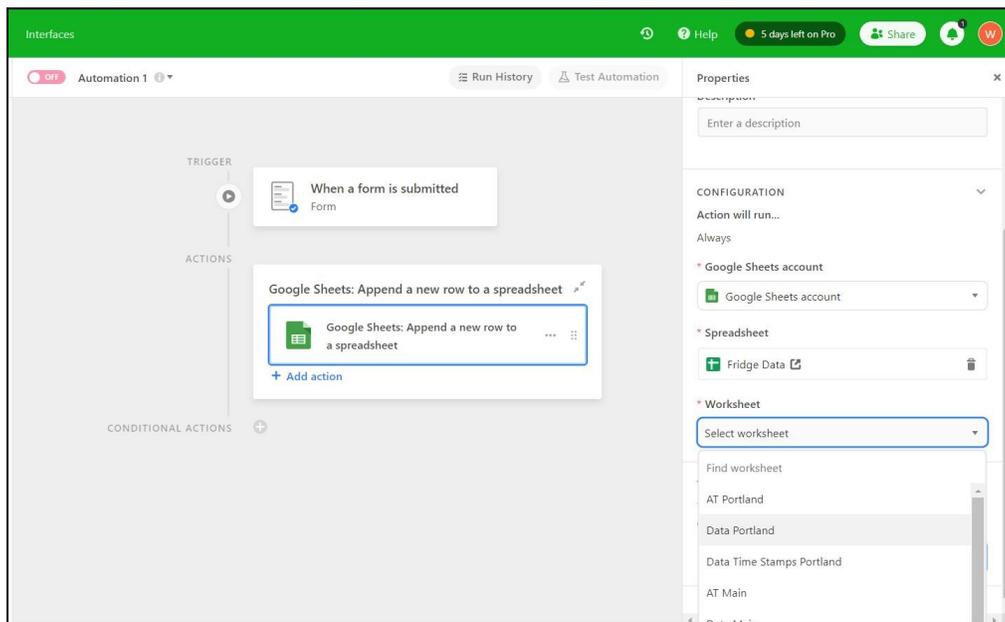


b) On the right bar under “Google Sheets account”, select the Google Sheets account that contains the desired sheet

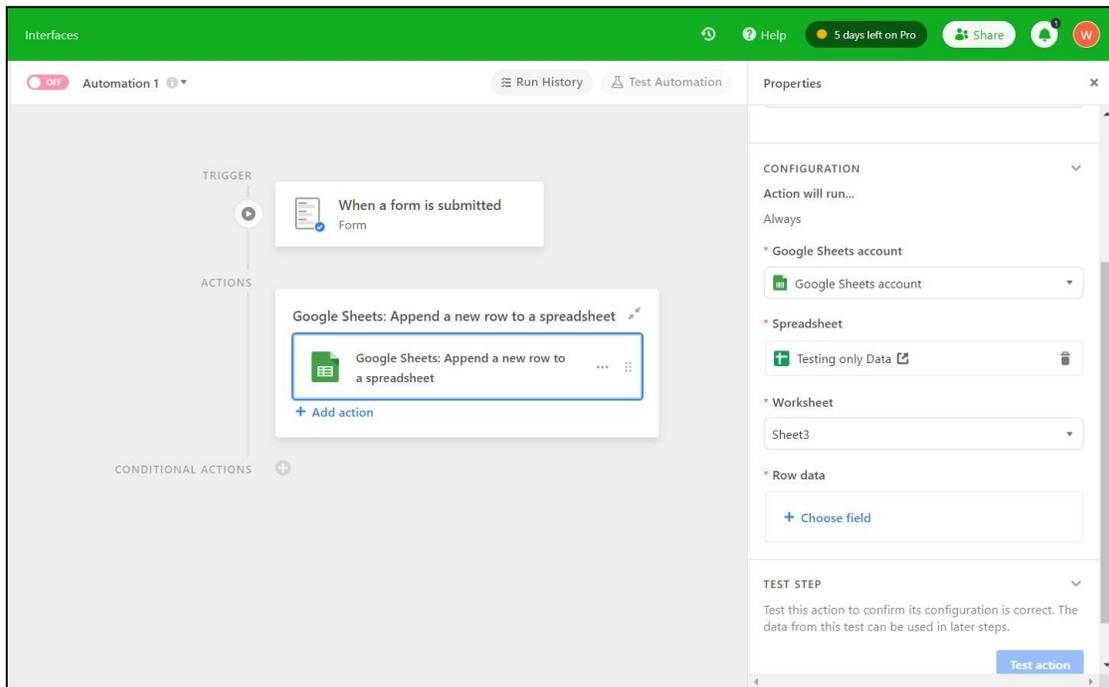
- c) Under “spreadsheet”, select the desired google sheet (The one we created is named Fridge Data)



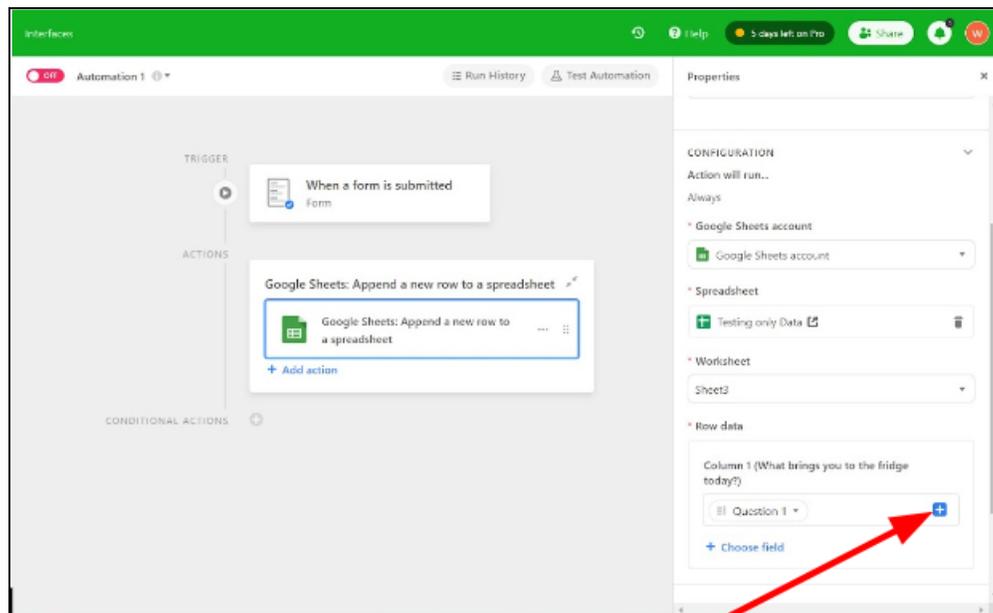
- d) Under “Worksheet”, select the desired tab in google sheet



- e) Under “Row Data”, click the “Choose Field” button and select a column from the google sheets.



- f) Then select the “+” button in the “column 1” field
- g) Select the corresponding question from the form that you want linked to the google sheet column



- h) Repeat the previous step for each Airtable question/column
- i) Then click on the “Turn on/off” automation switch near the top of the screen to turn on the automation

Setting Up Pipedream

Disclaimer

Make sure google sheets is formatted before creating a workflow in Pipedream

Changes to any of the survey questions may break a lot of the workflow shown below. Sufficient coding background is recommended if changes were to be made.

Getting Started/Creating a Trigger



1. Create a new workflow
2. Select Google Sheets as a source for the trigger
 - a. Then select New Row Added (Instant)
 - b. Proceed to fill out the the rest of the trigger
 - i. Select a Google Sheets account
 - ii. Then the targeted spreadsheet
 - iii. Finally pick the specific tab in that spreadsheet
 - iv. Leave the name field empty

v. Select Create Source

trigger

← Back to Google Sheets

Create Trigger ▸ New Row Added (Instant)

Google Sheets Account

wpiwoofridges@gmail.com

Spreadsheet

Fridge Data 1DcjXDjqrwfFzw03IcBRCz3Cj4eokw54-4EmtmUIZW2M

The Spreadsheet ID

Worksheet(s)

AT Portland 0

The Worksheet ID

Name

New Row Added (Instant)

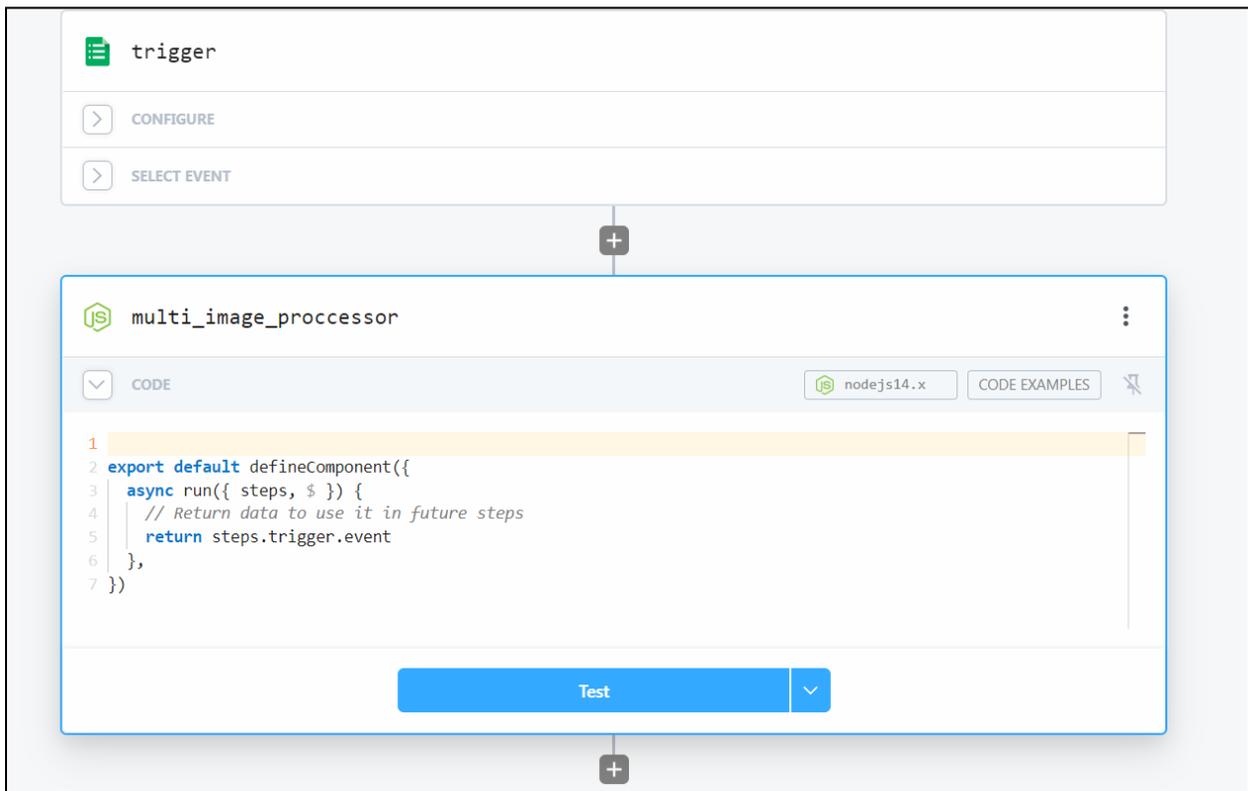
Create source

Processing Multiple Images

3. Create a new step by selecting the “+” icon below the trigger at the bottom
4. Select Node as a source for the next step
 - a. Select Run Node code
 - b. Name the step “multi_image_processor” (Hint: Default is “Node”)
 - c. Copy and paste the code below

```
export default defineComponent({
  async run({ steps, $ }) {
    return steps.trigger.event.newRow[6].split(", ")
  },
})
```

- i. Replace the number 6 with the corresponding column in excel -1 that contains the image links (ignore if using the same excel format as our examples)



The screenshot shows a workflow editor interface. At the top, there is a 'trigger' step with a green icon and a list icon. Below it are 'CONFIGURE' and 'SELECT EVENT' buttons. A plus sign (+) is centered below the trigger step. Below the plus sign is a 'multi_image_processor' step with a Node.js icon and a list icon. The step is expanded to show a code editor. The code editor has a 'CODE' tab, a 'nodejs14.x' environment selector, and a 'CODE EXAMPLES' button. The code in the editor is:

```
1
2 export default defineComponent({
3   async run({ steps, $ }) {
4     // Return data to use it in future steps
5     return steps.trigger.event
6   },
7 })
```

At the bottom of the code editor is a blue 'Test' button with a dropdown arrow.

Applying Content Moderation

5. Go to <https://www.moderatecontent.com/signup> (If you already have a content moderation API key you can ignore)
 - a. Sign up and obtain an API key
6. Create a new step again
7. Select HTTP / Webhook as a source
 - a. Select Send GET Request
 - b. Name the step “moderation”
 - c. Under GET, copy and paste the link below

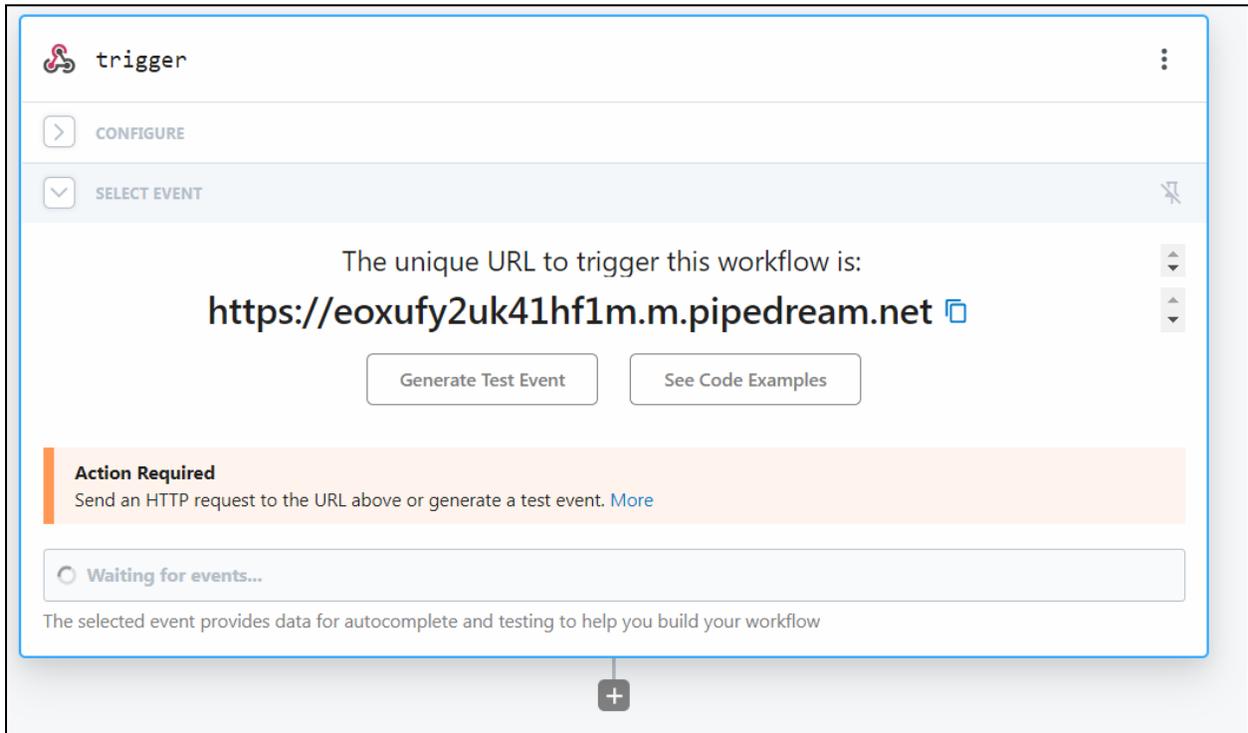
```
https://api.moderatecontent.com/moderate/?
```

- d. Under Params name the query “key”
 - i. Copy and paste the API key that you received from step 5
- e. Add a query and name it “url”
 - i. Copy and paste the text below

```
{{steps.multi_image_processor.$return_value[0]}}
```

The screenshot shows a configuration window for a step named "moderation". The "HTTP Request Configuration" section is active, showing a GET request to the URL "https://api.moderatecontent.com/moderate?". Below this, the "Params" tab is selected, displaying two query parameters: "key" with a redacted API key value, and "url" with the value "{{steps.multi_image_processor.\$return_value[0]}}". The "RESULTS" section at the bottom has a "Test" button and a "Continue" button.

8. Go back to the your Pipedream accounts workflow list (<https://pipedream.com/workflows>)
9. Create a new workflow
10. Select HTTP / Webhook as a source for the trigger
 - a. Then select HTTP Requests with a Body
 - b. Click Save and continue
 - c. Save the unique URL that is created



11. Add a new step
12. Select Google Sheets as the source
 - a. Then select Update Cell
 - b. Name the step "update_cell"
 - c. Fill out the information the same as in step 2
 - d. Under Cell copy and paste the text below

```
{{"G"+steps.trigger.event.row}}
```

- i. Replace the letter G with the corresponding column in your excel sheet that contains the image link (ignore if using our excel examples)
- e. Under Cell Number type in "Flag"

update_cell
⋮

CONFIGURE
✕

Google Sheets Account

📄 wpiwoofridges@gmail.com
⌵

Spreadsheet

📄 Fridge Data 1DcjXDjqrwfFzw03IcBRCz3Cj4eoKw54-4EmtmUIZW2M
⌵

The spreadsheet containing the worksheet to update

Sheet Name

📄 AT Portland
⌵

Your sheet name

Cell

{{"G"+steps.trigger.event.row}}
⌵

The A1 notation of the cell. E.g., A1

Cell Number

FLAG
⌵

The new cell value

Optional Fields

+ Drive
The drive containing the worksheet to update. If you are connected with any [Google Shared Driv...](#)

Test
⌵

13. Add a new step

14. Select Airtable as the source

- a. Then select Delete Record
- b. Name the step "delete_record"
- c. Connect the proper Airtable account
- d. Select corresponding Base and Table
- e. Under Record ID copy and paste the text below

```
{{steps.trigger.event.rec}}
```

delete_record

CONFIGURE

Airtable Account
Airtable

Base
Portland Fridge Project appYmc1fCUCVy8GhU
The base ID

Table
Table 1 tblFkCe6q7SCufEOJ
The table ID. If referencing a Base dynamically using data from another step (e.g. `{{steps.mydata.$return_value}}`), automatic table options won't work when configuring this step. Please enter a custom expression to specify the Table.

Record ID
{{steps.trigger.event.rec}}
Enter a record ID (eg. `recxxxxxxx`).

Test

15. Go back to the original workflow
16. Add a new step
17. Select Node as a source
 - a. Select Run Node code
 - b. Name the step "node"
 - c. Copy and paste the code below

```
export default defineComponent({
  async run({ steps, $ }) {
    let hasImage = true;
    if (steps.trigger.event.newRow[6] === "") {
      hasImage = false;
    }
    if (hasImage && steps.moderation.$return_value.rating_letter !== "e") {
      $.send.http({
        url: "https://eotctest.m.pipedream.net",
        method: "POST",
        data: {
          rec: steps.trigger.event.newRow[9],
          row: steps.trigger.event.rowNumber,
        }
      });
    }
  }
});
```

```

}
})
}
// Return data to use it in future steps
return hasImage
},
})

```

- i. Replace the number 6 with the corresponding column in excel -1 that contains the image links (ignore if using the same excel format as our examples)
- ii. Replace the number 9 with the corresponding column in excel -1 that contains the Airtable recordID (ignore if using the same excel format as our examples)
- iii. Replace the url link with the link saved from step 10

18. Add a new step

19. Select Filter as the source

- a. Select End execution if a condition is met
- b. Name the step “end_based_on_condition”
- c. Set initial value to the text below

```

{{steps.node.$return_value&&(steps.moderation.$return_value.rating_letter!="e")}}

```

- d. Set the Condition to [Boolean] Evaluates to True

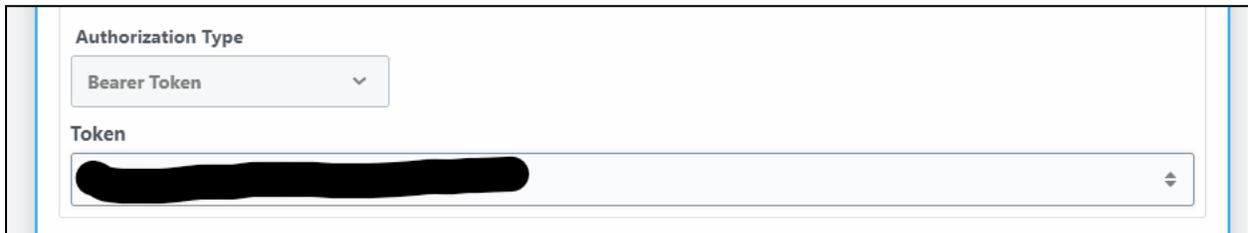
The screenshot shows a configuration window for a step named "end_based_on_condition". The "Initial value" field contains the JSON expression: `{{steps.node.$return_value&&(steps.moderation.$return_value.rating_letter!="e")}}`. Below this, the "Condition" is set to "[Boolean] Evaluates to True" with a "TRUE" label. There are also sections for "Optional Fields" with "Reason for continuing" and "Reason for ending" options, and a "Test" button at the bottom.

Rehosting Images on Imgur

20. Go to <https://api.imgur.com/oauth2> and follow the steps to register an application for a key
 - a. Skip this step if you already have an Imgur key from a previous project.
21. Add a new step
22. Select HTTP / Webhook as the source
 - a. Select Send POST Request
 - b. Name the step “imgur_hosting”
 - c. Under POST copy and paste the link below

```
https://api.imgur.com/3/image
```

- d. Under Auth, select the Authorization Type to Bearer Token
 - i. Enter token retrieved from step 20



The screenshot shows a configuration interface for an authorization type. A dropdown menu is open, showing 'Bearer Token' as the selected option. Below the dropdown is a text input field labeled 'Token', which contains a redacted token value.

- e. Under Body, select the Content-Type to application/json
 - i. Set the key to “image”
 - ii. Set the value to the text below

```
{{steps.multi_image_processor.$return_value[0]===""?"https://woofridge.org/wp-content/uploads/2021/04/fridge-png.png":steps.multi_image_processor.$return_value[0]}}
```

- iii. Replace the image link with the desired image for when the submission contains no image

imgur_hosting

CONFIGURE

HTTP Request Configuration [Import cURL](#)

POST `https://api.imgur.com/3/image`

Params Auth Headers (3) **Body**

Content-Type
application/json

[Edit Raw JSON](#)

KEY	VALUE
image	{{steps.multi_image_processor.\$return_value[0]=== ""? "https://woofridge.org/wp-content/uploads/2
Key...	Value...

Test

Updating Cell With New Imgur Link

23. Add a new step

24. Select Node as the source

- a. Select Run Node code
- b. Name the step “url_cell_finder”
- c. Copy and paste the code below

```
export default defineComponent({  
  async run({ steps, $ }) {  
    // Return data to use it in future steps  
    let targetCell = "G"+steps.trigger.event.rowNumber;  
    return targetCell  
  },  
})
```

- d. Replace the letter G with the column in the excel sheet that contains the image links
(skip if using our google sheets examples)

25. Add a new step

26. Select Google Sheets as the source

- a. Select Update Cell
- b. Name the step “update_cell”
- c. Fill out the information the same as before
- d. Under Cell copy and paste the text below

```
{{steps.url_cell_finder.$return_value}}
```

- e. Under Cell Number copy and paste the text below

```
{{steps.imgur_hosting.$return_value.data.link}}
```

Creating Discord Embed

27. Add a new step
28. Select Node as the source (Skip if not implementing into Discord)
 - a. Select Run Node code
 - b. Name the step "Embed_Generation"
 - c. Copy and paste the code below

```
//Format discord embed.
export default defineComponent({
  async run({ steps, $ }) {
    let embed = [
      {
        "title": "🍎 Union-Hill Fridge Update 🍎",
        "color": 0xFFC54D,
        "description": "",
        "timestamp": new Date().toISOString(),
        "author": {},
        "image": {
          "url": (steps.imgur_hosting.$return_value.data.link)
        },
        "thumbnail": {
          "url":
            ((steps.trigger.event.newRow[2]=== "Clean" || steps.trigger.event.newRow[2]=== "Sparkling")?"https://cdn.discordapp.com/emojis/1022687456174276618.webp?size=96&quality=lossless":"https://cdn.discordapp.com/emojis/1022668196093890580.webp?size=96&quality=lossless")
        },
        "footer": {},
        "fields": [
          {
            "name": "What brings you to the fridge today?",
            "value": steps.trigger.event.newRow[0]=== ""?"Blank":steps.trigger.event.newRow[0]
          }
        ],
      }
    ]
  }
})
```

```

{
  "name": "How much food is in the fridge?",
  "value": steps.trigger.event.newRow[1]===""?"Blank":steps.trigger.event.newRow[1]
},
{
  "name": "How clean is this fridge?",
  "value": steps.trigger.event.newRow[2]===""?"Blank":steps.trigger.event.newRow[2]
},
{
  "name": "How cold is this fridge?",
  "value": steps.trigger.event.newRow[3]===""?"Blank":steps.trigger.event.newRow[3]
},
{
  "name": "Additional Notes?",
  "value": steps.trigger.event.newRow[5]===""?"Blank":steps.trigger.event.newRow[5]
},
{
  "name": "Submitted By:",
  "value": steps.trigger.event.newRow[7]===""?"Anonymous":steps.trigger.event.newRow[7]
}
]
}
];
return embed
},
})

```

- d. Replace image links if necessary
- e. Replace the title with name of fridge
- f. Replace the color with the desired embed hex color.
- g. May edit any of the “name” fields if you want the embed to display different text
- h. Delete any { “name”. “value”} sections that you do not want displayed

Deleting Entry From Airtable

29. Add a new step
30. Select Airtable
 - a. Select Delete Record
 - b. Name the step “delete_record”
 - c. Fill out the information like in step 14
 - d. For Record ID copy and paste the text below

```
{{steps.trigger.event.newRow[9]}}
```

- e. Replace the number 9 with the corresponding column number in excel -1 that contains the Airtable recordID (Skip if using our google sheet examples)

The screenshot shows the configuration interface for a Zapier step named "delete_record". The interface is divided into several sections:

- Airtable Account:** A dropdown menu showing "Airtable".
- Base:** A dropdown menu showing "Portland Fridge Project" with the base ID "appYmc1fCUCVy8GhU". Below this, it says "The base ID".
- Table:** A dropdown menu showing "Union Hill Table" with the table ID "tblRKOaskUxVRRReev". Below this, it says "The table ID. If referencing a Base dynamically using data from another step (e.g., `{{steps.mydata.$return_value}}`), automatic table options won't work when configuring this step. Please enter a custom expression to specify the Table."
- Record ID:** A dropdown menu showing the expression `{{steps.trigger.event.newRow[9]}}`. Below this, it says "Enter a record ID (eg. `recxxxxxxx`)." and a "Test" button.

Sending Out the Discord Message

31. Add new step (SKIP THIS AND THE NEXT STEP IF YOU ARE NOT DOING DISCORD EMBED MESSAGE)
32. Select Discord Webhook
 - a. Select Send Message (Advanced)
 - b. Connect an account that has administrator privileges in the targeted Discord server
 - c. Under the Optional Field, click the “+” icon for Username, Avatar URL, Include link to workflow and Embeds
 - d. Under Username type the desired name for the Discord Bot
 - e. Under Avatar URL type in an image url for the Discord Bot avatar
 - f. Under Include link to workflow, set it to False
 - g. Under Embed copy and paste the text below

```
{{steps.Embed_Generation.$return_value}}
```

The screenshot shows the configuration for a 'send_message_advanced' step. It includes a 'CONFIGURE' button, a 'Discord Webhook Account' dropdown with 'lordbobo123@gmail.com', a 'Username' dropdown with 'Woo Fridges Union Form', an 'Avatar URL' dropdown with 'https://woofridge.org/wp-content/uploads/2021/04/Picture2.png', an 'Include link to workflow' dropdown set to 'FALSE', and an 'Embeds' dropdown with the expression '{{steps.Embed_Generation.\$return_value}}'. Below these are 'Optional Fields' for 'Message' and 'Thread ID', and a 'Test' button.

Deploying the Pipedream

33. Once everything is complete click Deploy in the top right of the screen
34. Once on deployed, head to the settings tab
 - a. Set the Execution Controls Timeout to 120 seconds.
 - b. Click Save
35. That's It! Everything should be up and running!