

Survey Quotas: Logic Quotas vs Distributed Logic Quotas

Segmented Quotas are response limits that are set up based on the answer/s to question/s in the survey. Using segmented quotas you can limit the number of responses based upon specific answers to questions in your survey, email campaign fields, as well as system data fields (i.e. current date).

Note: If you have configured an Overall Quota that has a lower limit than the limits assigned via your Logic Quotas, you will not be able to reach the Logic Quota limits without increasing the overall quota limit.

Segmented Quotas come in two varieties: **Logic Quota** and **Distributed Logic Quota**.

Logic Quotas vs Distributed Logic Quotas: Key Differences

Logic Quotas and Distributed Logic Quotas can accomplish the same goal. There are several key differences between Logic Quotas and Distributed Logic Quotas that should help you determine which quota to use:

- **Automatic math** - Distributed Logic Quotas automatically divide response limits across conditions (if more than one condition exists). You can control the distribution percentages.
- **Control of ANDs and ORs** - Because Distributed Logic Quotas do the math for you in order to evenly distribute responses, the ANDs and ORs are locked down. Logic Quotas give you full control of the ANDs and ORs in your conditions and groups.
- **Ease of Setup** - Distributed Logic Quotas are much more efficient to set up. What might take several separate logic quotas, can be accomplished with one distributed logic quota.

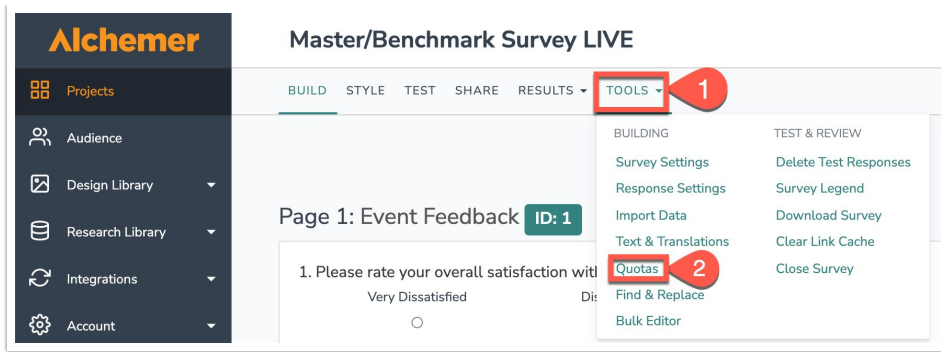
Logic Quota

A Logic Quota allows you to use one or more rules as the basis for your response limit.

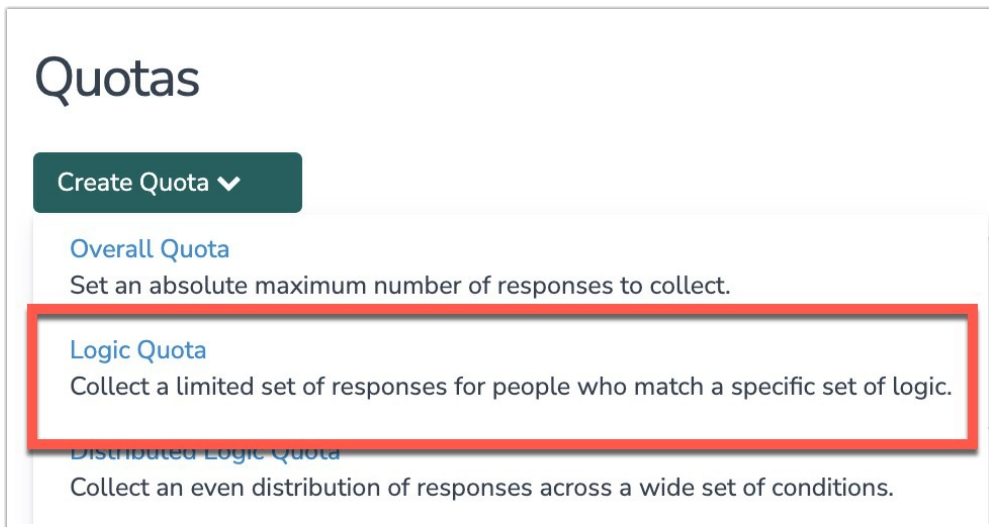
These quotas are most commonly set up based on how a respondent answers one question or a combination of questions in the survey. Once the segmented quota limit has been reached, you can control the respondent's experience via the [Quota Complete Settings](#).

Logic Quota Setup

1. To configure a Logic Quota, navigate to **Tools > Quotas**.
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2. Click **Create Quota** and select **Logic Quota** from the dropdown menu.



3. Provide the following pieces of information for your Logic Quota:
- **Name** - This is an internal title that will help you keep things organized
 - **Limit** - This is the number of responses that can be collected based on the quota rule.
 - **Description** - Describe your quota in plain language. This will save you time and, if you are collaborating with others, it will help them get up to speed quickly.
4. Create your Logic Quota rule(s) using the **Logic** builder.

For our example, we want to collect *25* responses from *Female College Graduates*. Our **Setup** page looks as follows:

Setup Complete Actions Need Help?

Setup

Name: Limit:

[Edit Description](#)

Logic

[Remove All Logic](#)

Q 1. Gender is one of the following

Male

Female

and

Q 2. Education is one of the following

Less than high school

Graduated high school

Trade/technical school

Some college, no degree

Associate degree

Bachelor's degree

Advanced degree (Master's, Ph.D., M.D.)

[+ Add Condition](#) [+ Add Group](#)

Note: Logic Quotas allow you to control how specific multiple conditions or groups evaluate via the **and/or** options that join conditions/groups.

Logic

[Remove All Logic](#)

Q 1. Gender is one of the following

Male

Female

and
 or

Q 2. Education is one of the following

Less than high school

Graduated high school

Trade/technical school

Some college, no degree

Important: Pay close attention to which option (and vs. or) you are using to combine conditions and groups. This can make all the difference in terms of how your quota rule is evaluated.

5. Configure your **Quota Complete** options via the Quota Complete tab. There are a number of options available via the **Quota Complete** tab.
6. **Save Quota** to finish setting up your **Logic Quota**.

Our example Logic Quota looks at **Female College Graduates**, but what if we want to collect the same number of responses for **Male College Graduates**, too?

While we can go through the setup up process once again for our **Male** segment (thereby creating a second, separate Logic Quota), a **Distributed Logic Quota** will allow us to capture both of these segments with one quota. Read on to learn how!

Distributed Logic Quota

A **Distributed Logic Quota** allows you to collect an even distribution of responses across a wide set of conditions.

In many cases Logic Quotas and Distributed Logic Quotas can accomplish the same goal. However, what might take several separate logic quotas, can be accomplished with one distributed logic quota.

Let's look at our above example for a Logic Quota to clarify:

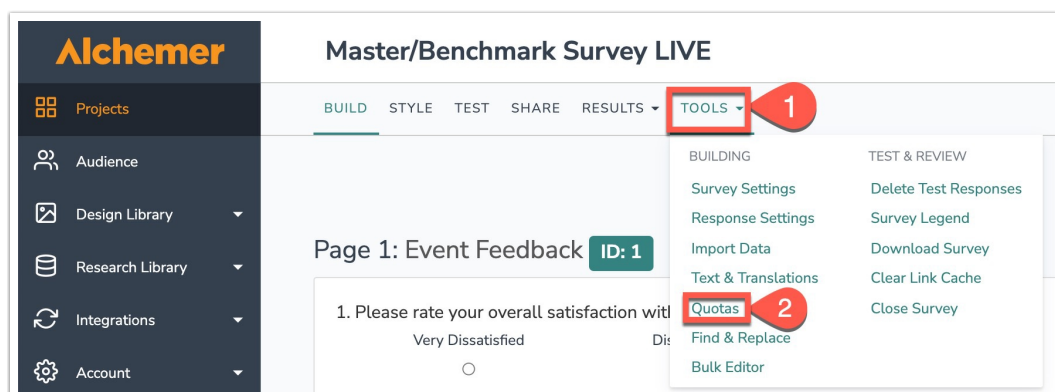
Our logic quota sets a limit of 25 respondents who identify as *Female* and *College Graduate*. We now want the same quota for *Male College Graduates*.

Using a Logic Quota, we need to go through the above setup process a second time to create a separate/new quota for the Male segment resulting in two Logic Quotas (each collecting 25 responses). This can be a lot of extra work depending on the number of different segments that you have.

Now, let's see how this could be set up using the **Distributed Logic Quota**.

Distributed Logic Quota Setup

1. To set up a **Distributed Logic Quota**, navigate to **Tools > Quotas**.



2. Under Quotas, click **Create Quota** and select **Distributed Logic Quota** from the dropdown menu.

Quotas

Create Quota ▼

Overall Quota

Set an absolute maximum number of responses to collect.

Logic Quota

Collect a limited set of responses for people who match a specific set of logic.

Distributed Logic Quota

Collect an even distribution of responses across a wide set of conditions.

3. Provide the following pieces of information for your Distributed Logic Quota:

- **Name** (internal) - This is an internal title that will help you keep things organized
- **Limit** - This is the number of responses that can be collected based on the quota rule.
- **Description** (internal) - Describe your quota in plain language. This will save you time and, if you are collaborating with others, it will help them get up to speed quickly.

Setup Complete Actions Need Help?

Setup

A Distributed Logic Quota allows you to collect an even distribution of responses across a wide set of conditions. For each group, define the full set of variations that can happen in that group. E.g. for a "Writing Hand" group you would have both "Left handed" and "right handed" conditions. Additional documentation on Distributed Logic Quotas can be found here.

Name: College Graduates - Male/Female

Limit: 50

Description: A 50/50 split between Male and Female respondents

4. Create your Distributed Logic Quota rule(s) using the logic builder.

For our example, we want to collect *50* responses from *College Graduates*. However, of those 50 responses we need to ensure a 50/50 response split between *Male* and *Female* respondents.

- First, build the rule that will capture all of the respondents that you want to count toward the Limit. In our example, we need all of the respondents to be *College Graduates*.

Logic

[Remove All Logic](#)

Group 1

Q 2. Education Less than high school
 Graduated high school
 Trade/technical school
 Some college, no degree
 Associate degree
 Bachelor's degree
 Advanced degree (Master's, Ph.D., M.D.)

[+ Add Condition](#)

and

Group 2 x

--Select a condition--

[+ Add Condition](#)

[+ Add Group](#)

b. Next, we want to make sure that the 50 respondents who indicate that they are College Graduates are evenly distributed among *Male* and *Female* respondents.

c. In **Group 2** (provided by default), we need to build the first rule based on our Gender question:

Remove All Logic

Group 1

Q 2. Education Less than high school
 Graduated high school
 Trade/technical school
 Some college, no degree
 Associate degree
 Bachelor's degree
 Advanced degree (Master's, Ph.D., M.D.)

[+ Add Condition](#)

and

Group 2 x

Q 1. Gender Male
 Female

[+ Add Condition](#)

[+ Add Group](#)

d. We then click **Add Condition** to build the second rule:

Advanced degree (Master's, Ph.D., M.D.)
 + Add Condition

and

Group 2 ✖

Percent 50 → Max response count 25

Q 1. Gender is one of the Male
 Female

or

Percent 50 → Max response count 25

Q 1. Gender is one of the Male ✖
 Female

+ Add Condition

+ Add Group

- Configure your **Complete Actions** options on the Quota Complete tab. There are a number of options available on the **Complete Actions** tab.
- Save Quota** to finish setting up your **Distributed Logic Quota**.

Note: When you add multiple conditions within distributed logic quotas, responses are automatically evenly distributed among each condition (you can customize the distribution). **This is a key difference between logic quotas and distributed logic quotas.**

By default, each condition added in **Group 2** is given an even distribution of responses to collect. If we were to add a third condition, we would see the **Percent** field update to 33.3 for each condition, a fourth condition would result in 25 percent for each, and so on.

Note on Rounding: In the event that your limit cannot be evenly distributed among your conditions, the last condition will be adjusted. For example, if you need to collect a limit of *10* respondents distributed among three conditions, the first two conditions would have a limit of *3* each with the last having a limit of *4*.

The **Max response counts** update automatically to show how many responses will be assigned to each condition based on the percentage specified and the **Limit** set above.

Feel free to edit the **Percent** field to customize your distributions.

Group 2 ✖

Percent 50 Max response count 25

Q 1. Gender is one of the Male Female

or

Percent 50 Max response count 25

Q 1. Gender is one of the Male Female ✖

+ Add Condition

The percentage values entered into the **Percent** field must equal **100**. Should the percentage values not add up to 100%, this will be indicated via a red border:

Group 2 ✖

Percent 10 Max response count 5

Q 1. Gender is one of the Male Female

or

Percent 75 Max response count 38 ✖

Q 1. Gender is one of the Male Female

+ Add Condition

Update the values to make sure that they equal 100 percent in order to proceed.

Note: Distributed Logic Quota *Conditions* are joined with *OR* statements whereas Distributed Logic Quota *Groups* are joined with *AND* statements. This configuration is necessary in order to ensure the distribution of responses. If you wish to control the ANDs and ORs use a **Logic Quota** instead.

Monitor Segmented Quotas

Once your survey starts collecting responses, you will probably want to [monitor progress of your quotas](#).

FAQ

What happens if respondents don't answer the questions used in my quota conditions?

If respondents do not answer the questions used in your quota conditions, they will be allowed to complete the survey so make sure you [require the questions](#) used in your segmented quota logic to prevent this from happening!

Can I add a Segmented Quota after collecting responses?

You can! If you add a Segmented Quota after collecting responses, the quota will retroactively include previously submitted responses that meet the quota condition(s).

Related Articles