

TRANSPORT 4 AUG

Workshop 2
Guidance Document

How to Check Data Quality

Updated on 27th July 2021

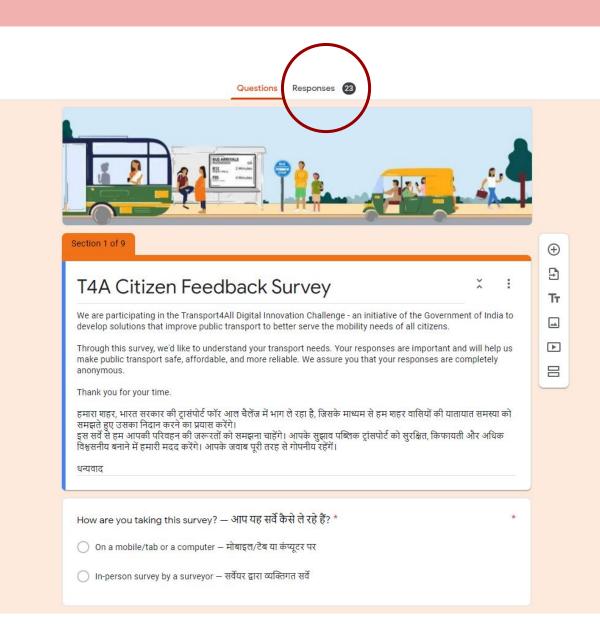
Supervisor checks data quality



A. Open your survey form

- 1. Open your citizen survey form
- 2. After opening the form, click on responses

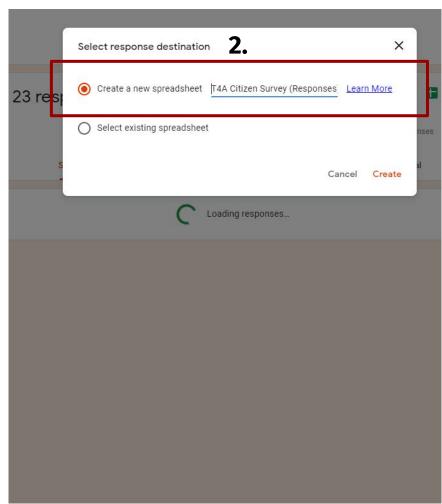
You can also quickly check the progress of your surveys in the response tab



- In the form title, click on the green plus icon in the to left corner
- In the dialogue box that opens, select "Create a new spreadsheet"

B. Create a google sheet





Step 1: In the google sheet, click on "File"

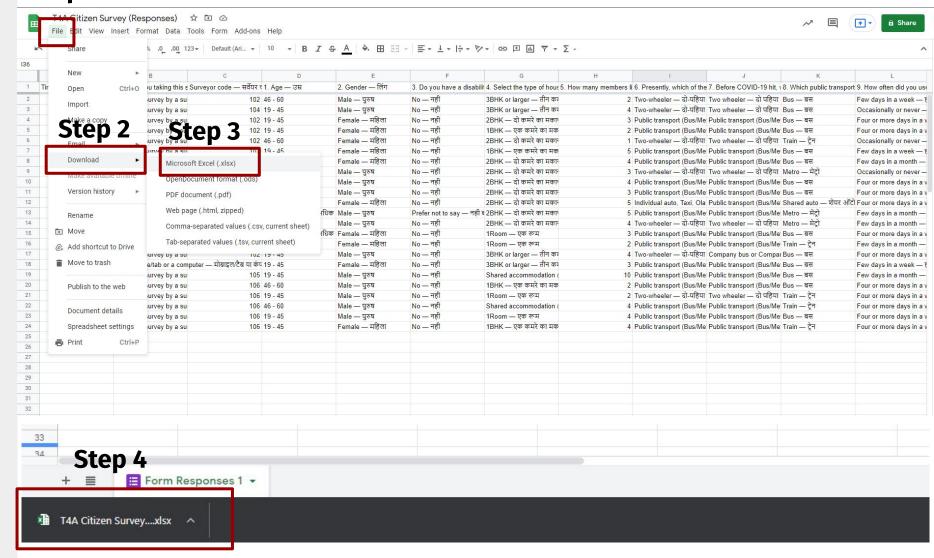
Step 2: Next click on **"Download"**

Step 3: Select Microsoft Excel (.xlsx)

Step 4: Open the downloaded file

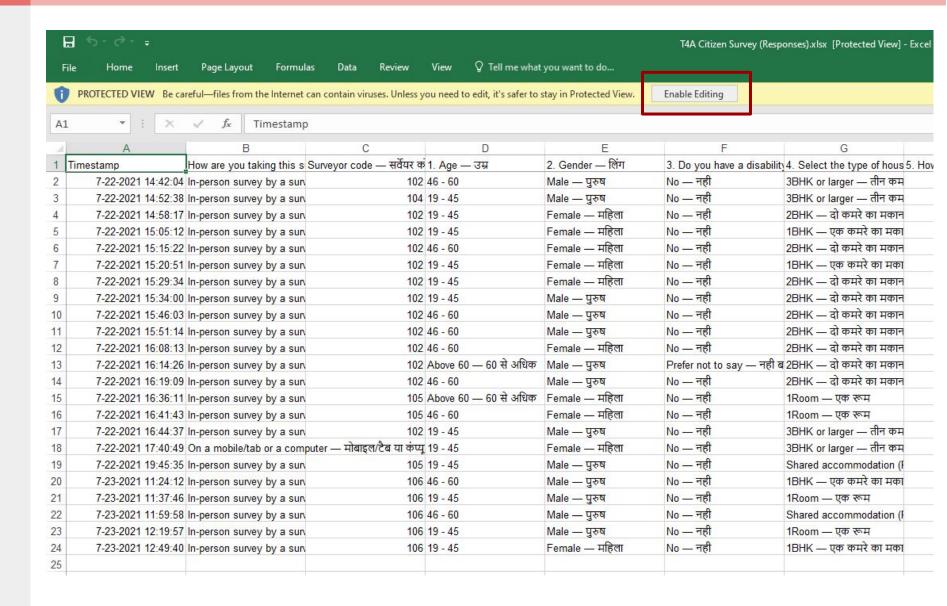
C. Download the excel sheet

Step 1



After opening the sheet, a warning will appear in a yellow ribbon. Click on "Enable Editing"

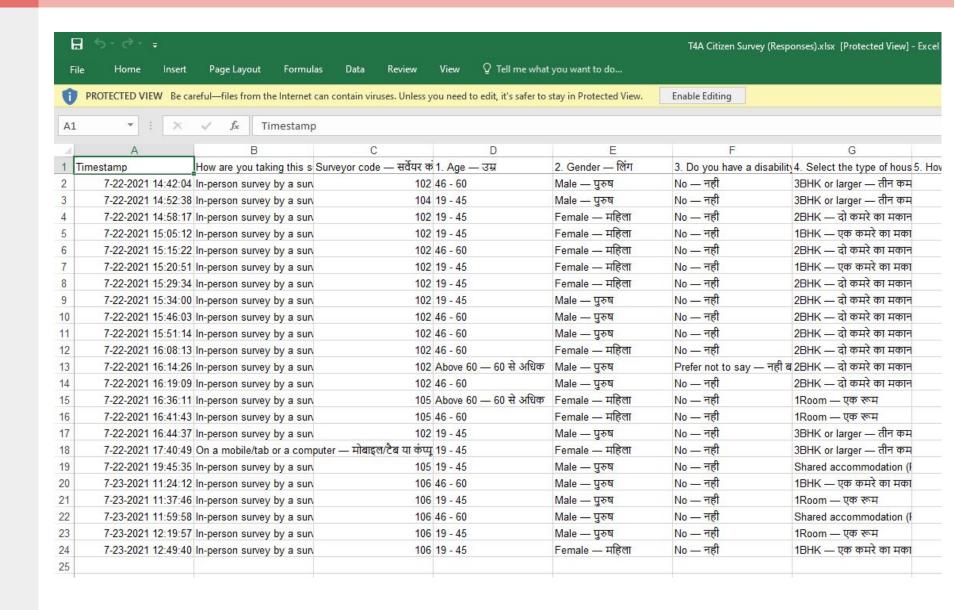
D. Open the excel sheet with survey responses



- Select the survey responses from your survey sheet
- And press "Ctrl+C" to copy them

Note: Make sure that "—" separate your english and regional language text

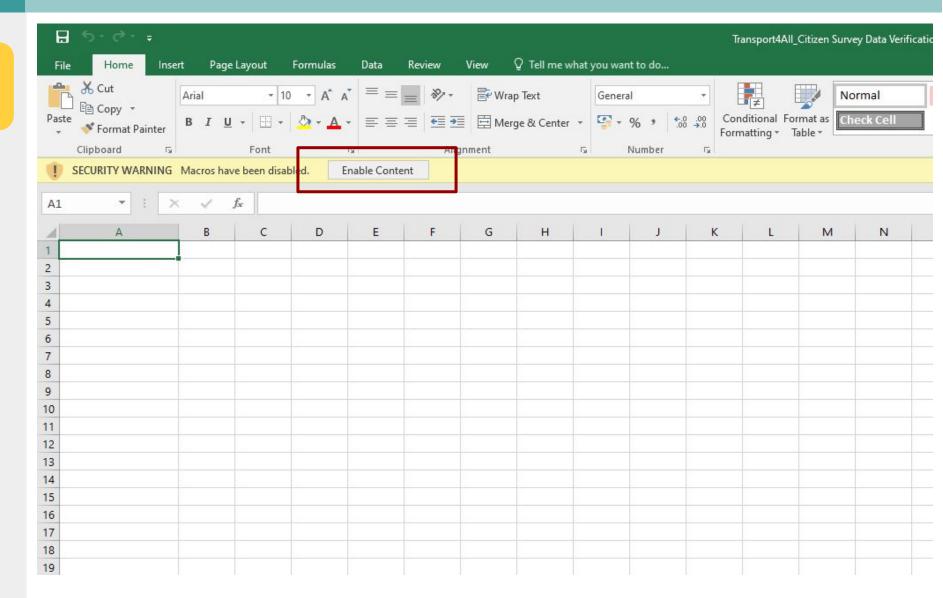
E. Copying the survey responses



<u>Download the guide</u> <u>by clicking here!</u>

- Open the guide named "Transport4All_Citizen Survey Data Verification Toolkit"
- After opening the sheet, a warning will appear in a yellow ribbon. Click on "Enable Editing"
- 3. When prompted again, click on "Enable Content"

A. Opening the data verification toolkit



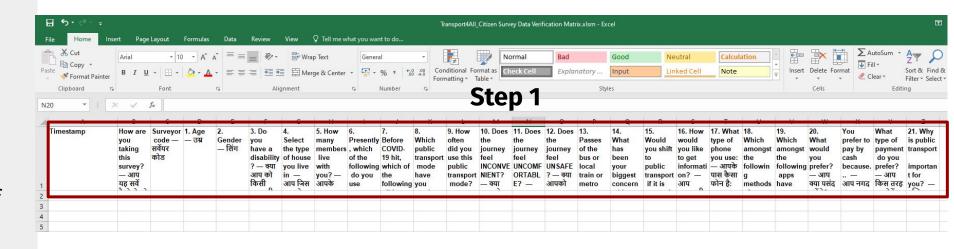
Step 1: Verify that your questions are in the same order as given in the verification sheet

Step 2: Paste the data according to the ordering of the questions by pressing "Ctrl+V"

PASTE THE RESPONSES AS PER THE QUESTIONS GIVEN IN THE VERIFICATION SHEET!!

If you have added any new column like Email Id, please paste it after question no. 21-- after column AA

B. Inputting the survey data



| A | В | С | D | E | F | G | Н | 1 | J | K | L | |
|------------------|--|---------------------------------------|--------------------|-------------------------|--|--|--|--|---|--|---|-------|
| Fimestamp | How are you taking this survey? — आप यह सर्वे कैसे ले रहे हैं? | Surveyor code — 1. Age सर्वेयर कोड | — उम्र 2. (| Gender — लिंग | disability? — क्या आप को किसी तरह की विकलांगता है? | 4. Select the type of house you live in — आप जिस तरह के घर में रहते हैं उसका चयन करें tep 2 | 5. How many members live with you? — आपके साथ कितने लोग रहते हैं? | the following do you use most often? — अभी, आप इनमे से | most often? — आप COVID-19 के पहले इनमे से किसका सबसे अधिक | 8. Which public transport mode have you used most often in the past few years? — पिछले कुछ सालों में आपने किस पब्लिक रांग्योर्ट का सबसे अधिक | 9. How often did you use this public transport mode? — आप अपने शहर में कितनी बार पब्लिक ट्रांसपोर्ट सेवाओं का उपयोग करते हैं? | |
| 7-22-2021 14:42: | 04 In-person survey by a sur | 102 46 - 60 | Ma | le — पुरुष | | 3BHK or larger — तीन कर | | 2 Two-wheeler — दो-पहिया | | | Few days in a week — 1 | हा Ye |
| 7-22-2021 14:52: | 38 In-person survey by a sur | 104 19 - 45 | Ma | le — <mark>पुरुष</mark> | No — नही | 3BHK or larger — तीन का | P. | 4 Two-wheeler — दो-पहिया | Two wheeler — दो पहिया | Bus — बस | Occasionally or never - | -7Ye |
| 7-22-2021 14:58: | 17 In-person survey by a sur | 102 19 - 45 | | male — महिला | | 2BHK — दो कमरे का मका | 1- | 3 Public transport (Bus/Me | t Public transport (Bus/Me | t Bus — बस | Four or more days in a v | we Ye |
| 7-22-2021 15:05: | 12 In-person survey by a sur | 102 19 - 45 | Fer | male — महिला | No — नही | 1BHK — एक कमरे का मक | ন | 2 Public transport (Bus/Me | t Public transport (Bus/Me | t Bus — बस | Four or more days in a v | we Ye |
| 7-22-2021 15:15: | 22 In-person survey by a sur | 102 46 - 60 | Fer | male — महिला | No — नही | 2BHK — दो कमरे का मका | न | 1 Two-wheeler — दो-पहिया | Two wheeler — दो पहिया | Train — ट्रेन | Occasionally or never - | -7YE |
| 7-22-2021 15:20: | 51 In-person survey by a sur | 102 19 - 45 | | male — महिला | | 1BHK — एक कमरे का मक | | 5 Public transport (Bus/Me | t Public transport (Bus/Me | t Bus — बस | Few days in a week — i | हर No |
| 7-22-2021 15:29: | 34 In-person survey by a sur | 102 19 - 45 | Fer | male — महिला | | 2BHK — दो कमरे का मका | | 4 Public transport (Bus/Me | | | Few days in a month — | - TYE |
| 7-22-2021 15:34: | 00 In-person survey by a sur | 102 19 - 45 | Ma | le — पुरुष | | 2BHK — दो कमरे का मका- | | 3 Two-wheeler — दो-पहिया | Two wheeler — दो पहिया | Metro — मेट्रो | Occasionally or never - | - ₹Ye |
| 7-22-2021 15:46: | 03 In-person survey by a sur | 102 46 - 60 | Ma | le — <mark>पुरुष</mark> | | 2BHK — दो कमरे का मका- | | 4 Public transport (Bus/Me | t Public transport (Bus/Me | t Bus — बस | Four or more days in a v | we Ye |
| 7-22-2021 15:51: | 14 In-person survey by a sur | | | le — <mark>पुरुष</mark> | | 2BHK — दो कमरे का मका- | | 3 Public transport (Bus/Me | | | Four or more days in a v | |
| | 13 In-person survey by a sur | | | male — महिला | | 2BHK — दो कमरे का मका | | 5 Individual auto, Taxi, Ola | Public transport (Bus/Me | t Shared auto — शेयर ऑटो | Four or more days in a v | we No |
| 7-22-2021 16:14: | 26 In-person survey by a sur | 102 Above 6 | 60 — 60 से अधिक Ma | le — पुरुष | Prefer not to say — नहीं ब | 2BHK — दो कमरे का मका- | न | 5 Public transport (Bus/Me | | | Few days in a month — | . IYe |
| 7-22-2021 16:19: | 09 In-person survey by a sur | | | le — <mark>पुरुष</mark> | | 2BHK — दो कमरे का मका- | 7 | 4 Two-wheeler — दो-पहिया | Two wheeler — दो पहिया | Metro — मेट्रो | Few days in a month — | - INC |
| 7-22-2021 16:36: | 11 In-person survey by a sur | 105 Above 6 | | male — महिला | | 1Room — एक रूम | | 3 Public transport (Bus/Me | t Public transport (Bus/Me | t Bus — बस | Four or more days in a v | we No |
| 7-22-2021 16:41: | 43 In-person survey by a sur | 105 46 - 60 | Fer | male — महिला | | 1Room — एक रूम | | 2 Public transport (Bus/Me | | | Few days in a month — | · IYe |
| | 37 In-person survey by a sur | | | le — पुरुष | | 3BHK or larger — तीन का | | 4 Two-wheeler — दो-पहिया | | | Four or more days in a v | we Ye |
| 7-22-2021 17:40: | 49 On a mobile/tab or a com | puter — मोबाइल/टैब या कंप्यू 19 - 45 | Fer | male — महिला | | 3BHK or larger — तीन का | P . | 3 Public transport (Bus/Me | t Public transport (Bus/Me | t Bus — बस | Few days in a week — 1 | हा Ye |
| | 35 In-person survey by a sur | | | le — पुरुष | | Shared accommodation | | 10 Public transport (Bus/Me | t Public transport (Bus/Me | t Bus — बस | Few days in a month — | .IY |
| 7-23-2021 11:24: | 12 In-person survey by a sur | 106 46 - 60 | Ma | le — पुरुष | 1000 | 1BHK — एक कमरे का मक | গ | 2 Public transport (Bus/Me | | | Four or more days in a v | we Ye |
| 7-23-2021 11:37: | 46 In-person survey by a sur | 106 19 - 45 | Ma | le — पुरुष | | 1Room — एक रूम | | 2 Two-wheeler — दो-पहिया | Two wheeler — दो पहिया | Train — ट्रेन | Four or more days in a v | we No |
| 7-23-2021 11:59: | 58 In-person survey by a sur | 106 46 - 60 | Ma | le — <mark>पुरुष</mark> | No — नही | Shared accommodation | (F | 4 Public transport (Bus/Me | t Public transport (Bus/Me | t Train — ट्रेन | Four or more days in a v | we Ye |
| 7-23-2021 12:19: | 57 In-person survey by a sur | 106 19 - 45 | Ma | le — <u>पुरुष</u> | No — नही | 1Room — एक रूम | | 4 Public transport (Bus/Me | t Public transport (Bus/Me | t Bus — बस | Four or more days in a v | we No |

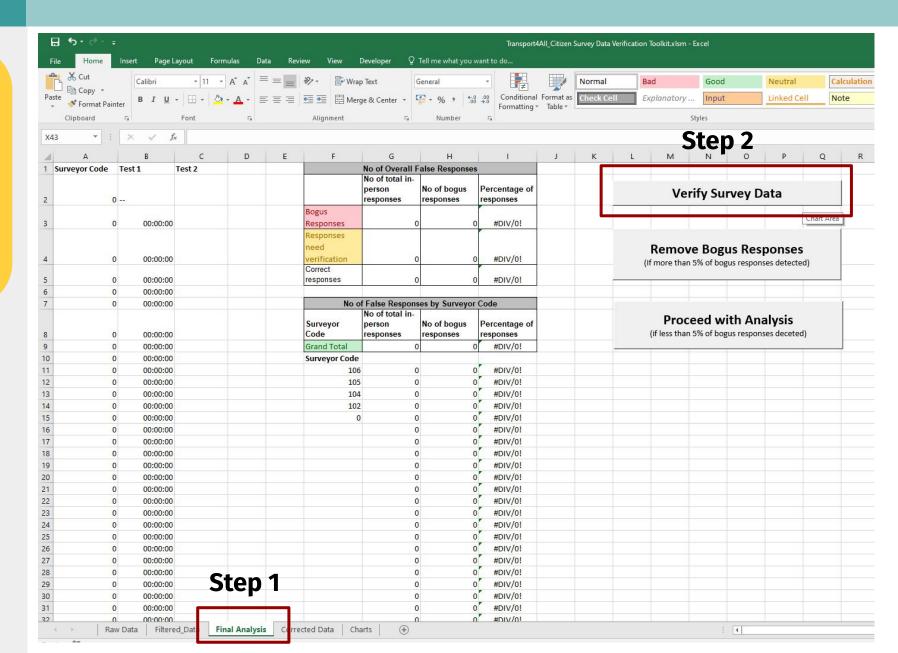
Step 1: Click on "Final Analysis" tab

Step 2: Click on the "Verify Survey Data" button

Step 3: **Wait for 5-10 minutes** while it runs the analysis.

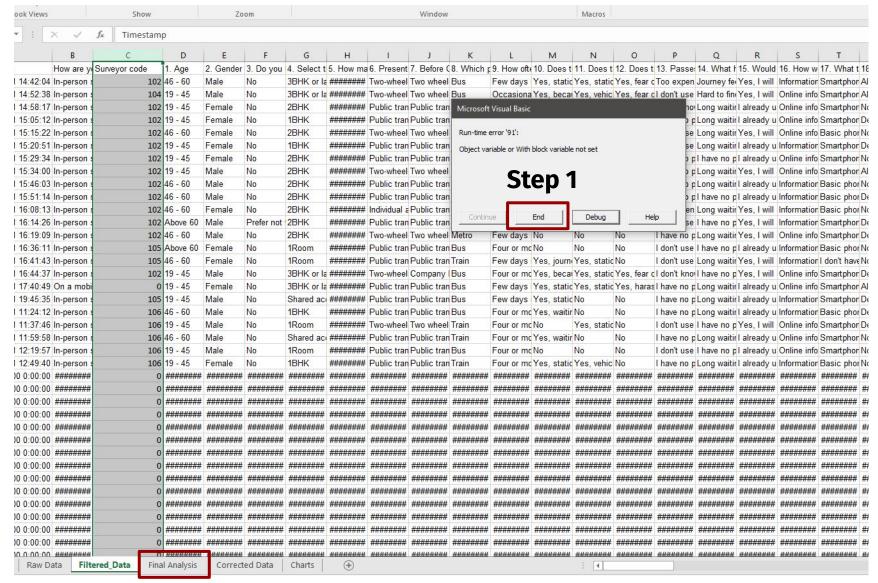
The sheet might freeze multiple times during this process, please don't close it.

C. Verifying the data



- In case of an error, click on "End"
- Go back to "Final Analysis" tab
- 3. Repeat the steps in the previous page again.

C. Verifying the data (In case of an error)



Step 2

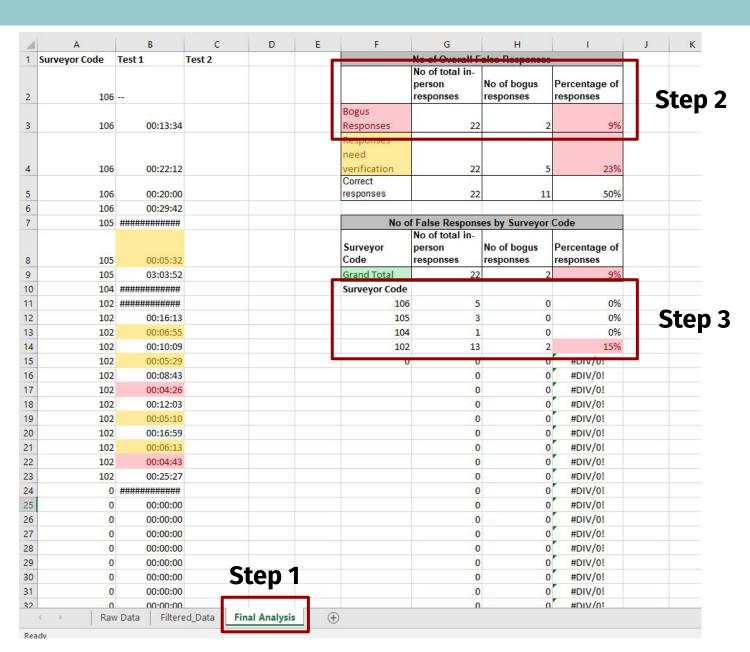
D. Checking the data quality

Step 1: Click on **"Final Analysis"** sheet

Step 2: Check the overall percentage of bogus responses. This should be less than 5%

Step 3: Check the bogus responses by surveyor

DO NOT CHANGE any formula in this document



D1. Discarding the bogus responses (if bogus response is more than 5%)

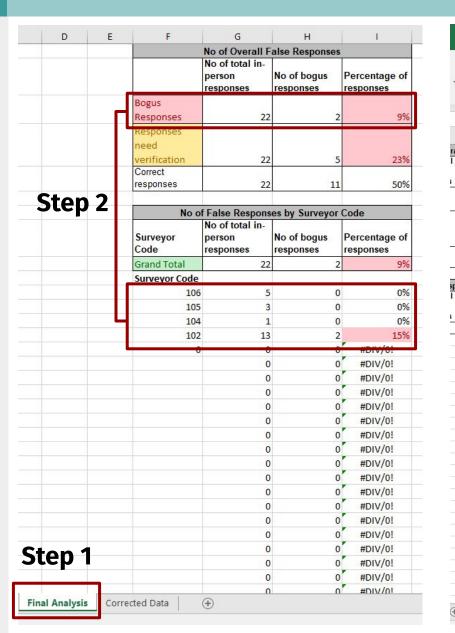
Step 1: Click on **"Final Analysis"** tab

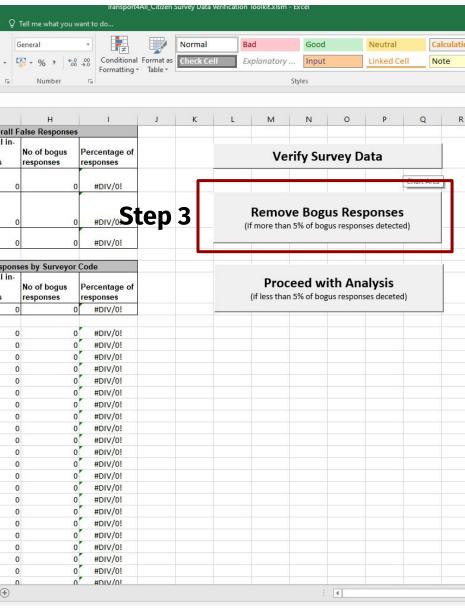
Step 2: Check if If you **more than 5%** of the data is Bogus.

Step 3: Click on the "Remove Bogus Responses" button

Step 4: **Wait for 2-5 minutes** while it runs the analysis.

The sheet might freeze multiple times during this process, but don't close it.





D2. Proceeding to data analysis, (only if bogus response is less than 5%)

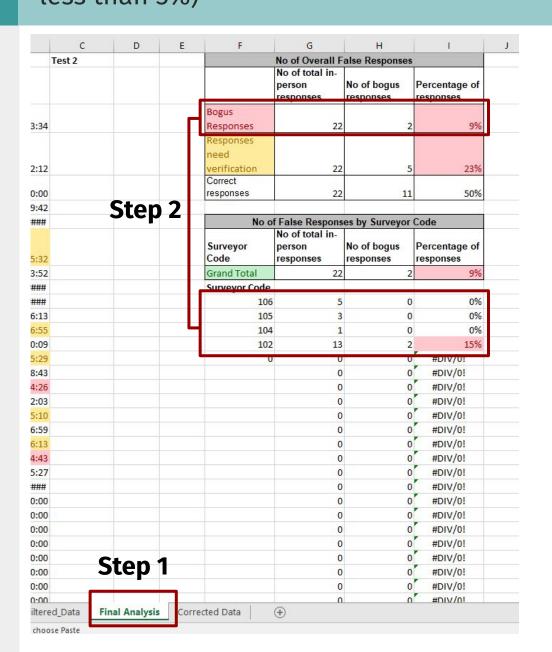
Step 1: Click on **"Final Analysis"** tab

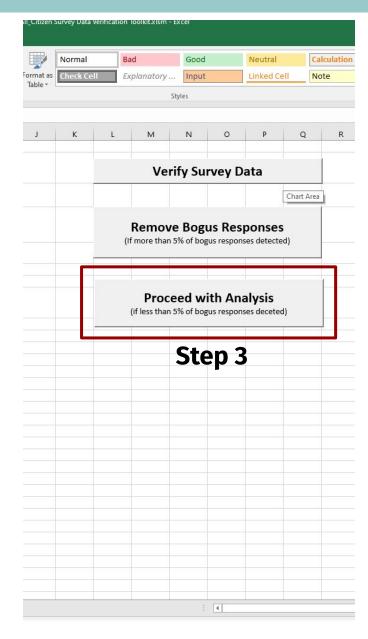
Step 2: Check if **less than 5%** of data is bogus.

Step 3: Click on the "**Proceed** with Analysis" button

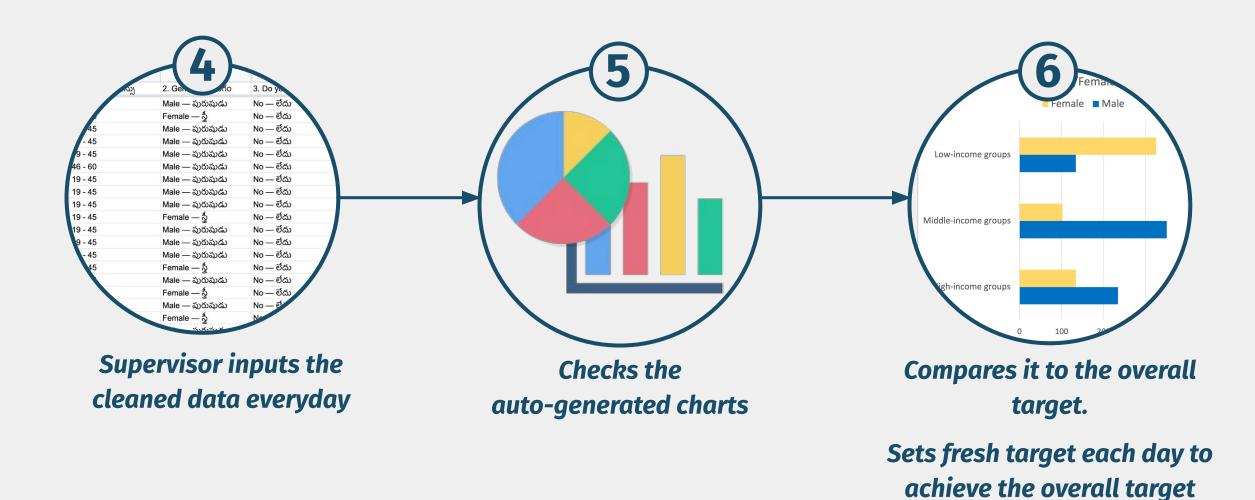
Step 4: **Wait for 2-5 minutes** while it runs the analysis.

The sheet might freeze multiple times during this process, but don't close it.





Supervisor checks target status



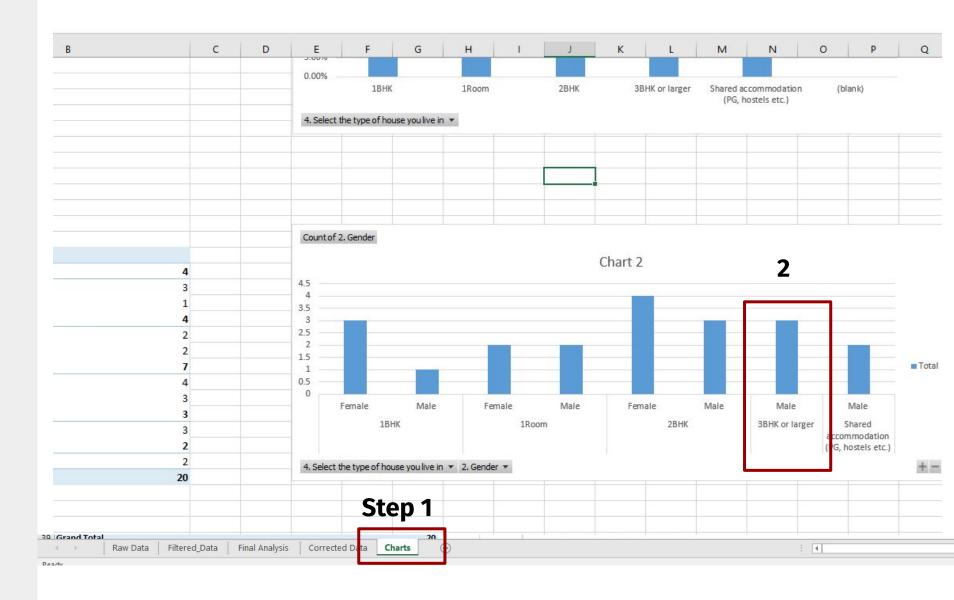
3. Analyzing the survey data

Step 1: Click on "Charts" tab in the excel sheet

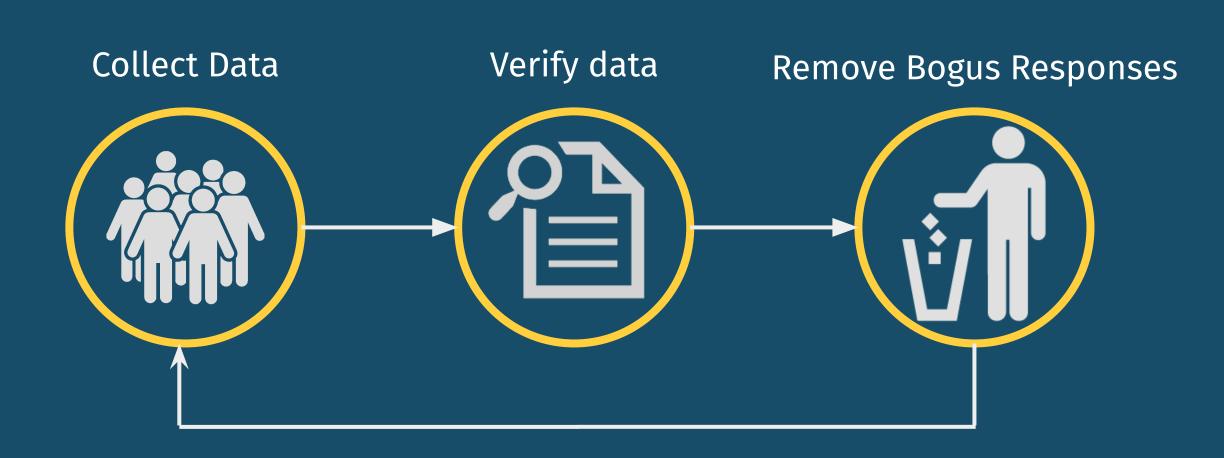
Step 2: Check all 4
auto-generated charts to
make sure the sample is
distributed equally among
all income groups, gender
and age. For example in this
case, no females were
interviewed in high-income
households

Step 3: Make sure there is representation from people with disabilities as well. (Check chart 4)

A. Checking the auto-generated charts and compare it to the overall targets



Repeat these steps every day till the overall target is reached with authentic data

















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www.transport4all.in

contact@transport4all.in for any queries