

# **Probability and Statistics**

**Dr. Faisal Bukhari**

**Punjab University College of Information Technology  
(PUCIT)**

# Important URLs for creating online surveys

❑ <https://docs.google.com/forms/>

❑ <https://www.surveymonkey.com/>

# How to design a Questionnaire

- ❑ <http://www.surveysystem.com/sdesign.htm>
- ❑ [http://www.indiana.edu/~educy520/sec5982/week 3/questionnaire development frary.pdf](http://www.indiana.edu/~educy520/sec5982/week%203/questionnaire%20development%20frary.pdf)

# Google form screen

The screenshot displays the Google Forms editor interface. At the top, a purple header bar contains a back arrow, the text "Untitled form", and icons for themes, preview, settings, a "SEND" button, a menu, and a user profile. Below the header, a white panel shows the "QUESTIONS" tab selected, with "RESPONSES" as an alternative. The main area is titled "Untitled form" with a "Form description" field below it. A question titled "Untitled Question" is being edited, set to a "Multiple choice" type. It includes two options: "Option 1" and "Add option or ADD 'OTHER'", each with a radio button. A vertical toolbar on the right offers additional actions like adding a new question, inserting text, images, or videos.

← Untitled form

QUESTIONS RESPONSES

Untitled form

Form description

Untitled Question

Multiple choice

☐ Option 1

☐ Add option or [ADD "OTHER"](#)

+  
T  
🖼️  
📺

QUESTIONS

RESPONSES

7

# Pakistan New Zealand Cricket Series 2016

Form description

...

1. Who will win the test series?

☒ Multiple choice ▼

☐ Pakistan

×

☐ New Zealand

×

☐ Add option or [ADD "OTHER"](#)

# Duplicate Questions

The screenshot displays a quiz editor interface with a purple header bar. Below the header, there are two tabs: 'QUESTIONS' (active) and 'RESPONSES' (with a count of 7). The main area shows a question titled '1. Who will win the test series?' with a 'Multiple choice' dropdown menu. Below the question, there are three options: 'Pakistan', 'New Zealand', and 'Add option or ADD "OTHER"'. To the right of each option is a delete icon (X). At the bottom right of the question card, there are icons for duplicating (two overlapping squares), deleting (trash can), and a 'Required' toggle switch. A red arrow points from the duplicate icon to a blue box labeled 'Duplicate'.

QUESTIONS RESPONSES 7

1. Who will win the test series? Multiple choice

☐ Pakistan X

☐ New Zealand X

☐ Add option or ADD "OTHER"

☐ Required

1. Who will win the test series?

☐ Pakistan

☐ New Zealand

Duplicate

# Question 2



Required



2. Who will be the highest run scorer in the test series?

1. Younis Khan

2. Ken Williamson

3. Misbah ul Haq



4. Ross Taylor

5. Other

# View Form

## Pakistan New Zealand Cricket Series 2016

1. Who will win the test series?

☐ Pakistan

☐ New Zealand

2. Who will be the highest run scorer in the test series?

Choose ▼

**SUBMIT**



# Submit Form

## Pakistan New Zealand Cricket Series 2016

1. Who will win the test series?

☐ Pakistan

☐ New Zealand

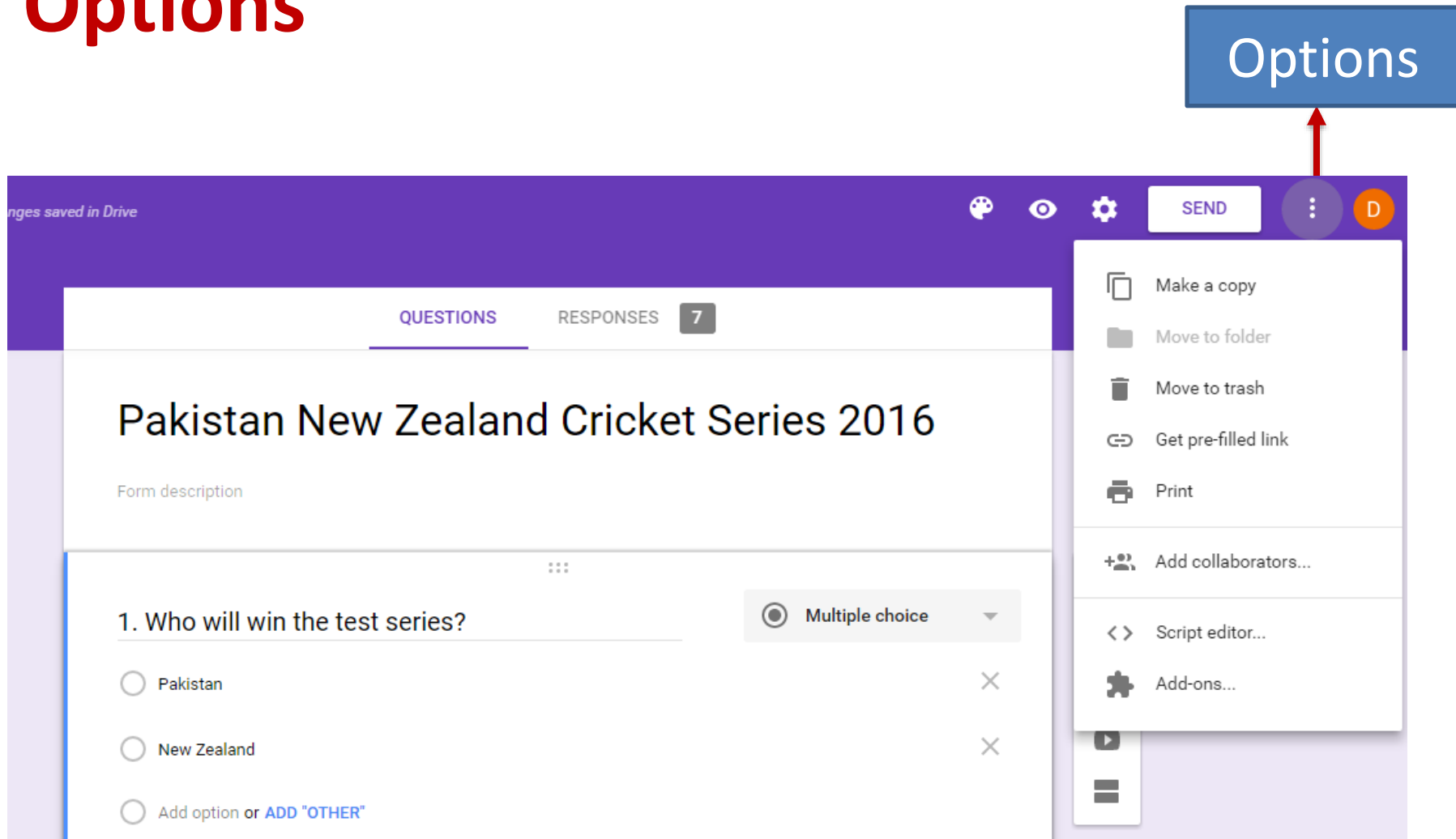
2. Who will be the highest run scorer in the test series?

Choose ▼

Submit

SUBMIT

# Options



The image shows a Google Forms interface with a purple header. The main content area is titled "Pakistan New Zealand Cricket Series 2016" and contains a question: "1. Who will win the test series?". The question is set to "Multiple choice" and has three options: "Pakistan", "New Zealand", and "Add option or ADD 'OTHER'". A red arrow points from a blue box labeled "Options" to the three-dot menu icon in the top right corner of the form editor. The menu is open, showing options like "Make a copy", "Move to folder", "Move to trash", "Get pre-filled link", "Print", "Add collaborators...", "Script editor...", and "Add-ons...".

Options

Changes saved in Drive

SEND

QUESTIONS RESPONSES 7

Pakistan New Zealand Cricket Series 2016

Form description

1. Who will win the test series?

Multiple choice

☐ Pakistan

☐ New Zealand

☐ Add option or ADD "OTHER"

- Make a copy
- Move to folder
- Move to trash
- Get pre-filled link
- Print
- Add collaborators...
- Script editor...
- Add-ons...

# Filled Questionnaire

## Pakistan New Zealand Cricket Series 2016

1. Who will win the test series?

- ☒ Pakistan
- ☐ New Zealand

2. Who will be the highest run scorer in the test series?

Younis Khan ▼

SUBMIT

# Response Recorded

## Pakistan New Zealand Cricket Series 2016

Your response has been recorded.

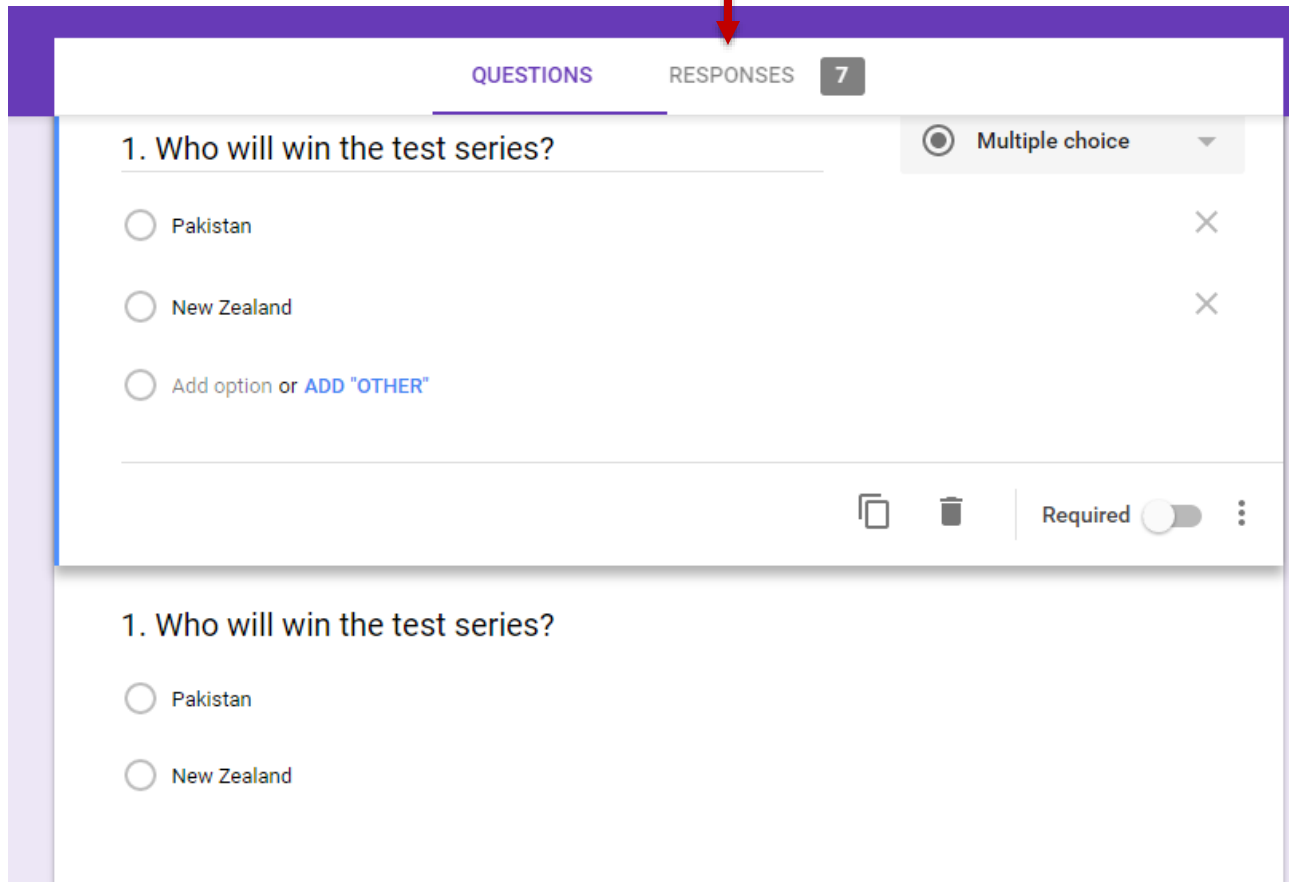
[Submit another response](#)



Submit another  
response

# Responses

Click responses to view the summary



The screenshot displays a quiz interface with a purple header bar. Below the header, there are two tabs: 'QUESTIONS' and 'RESPONSES'. The 'RESPONSES' tab is active, and a red arrow points to it from the text 'Click responses to view the summary'. To the right of the 'RESPONSES' tab is a dark grey button with the number '7'. The main content area shows a question: '1. Who will win the test series?'. Below the question are three radio button options: 'Pakistan', 'New Zealand', and 'Add option or ADD "OTHER"'. To the right of the question, there is a dropdown menu labeled 'Multiple choice' with a downward arrow. At the bottom right of the question card, there are icons for a document, a trash can, and a toggle switch labeled 'Required' which is currently turned off. Below the question card, the same question and options are repeated.

QUESTIONS RESPONSES 7

1. Who will win the test series?

☐ Pakistan

☐ New Zealand

☐ Add option or ADD "OTHER"

Multiple choice

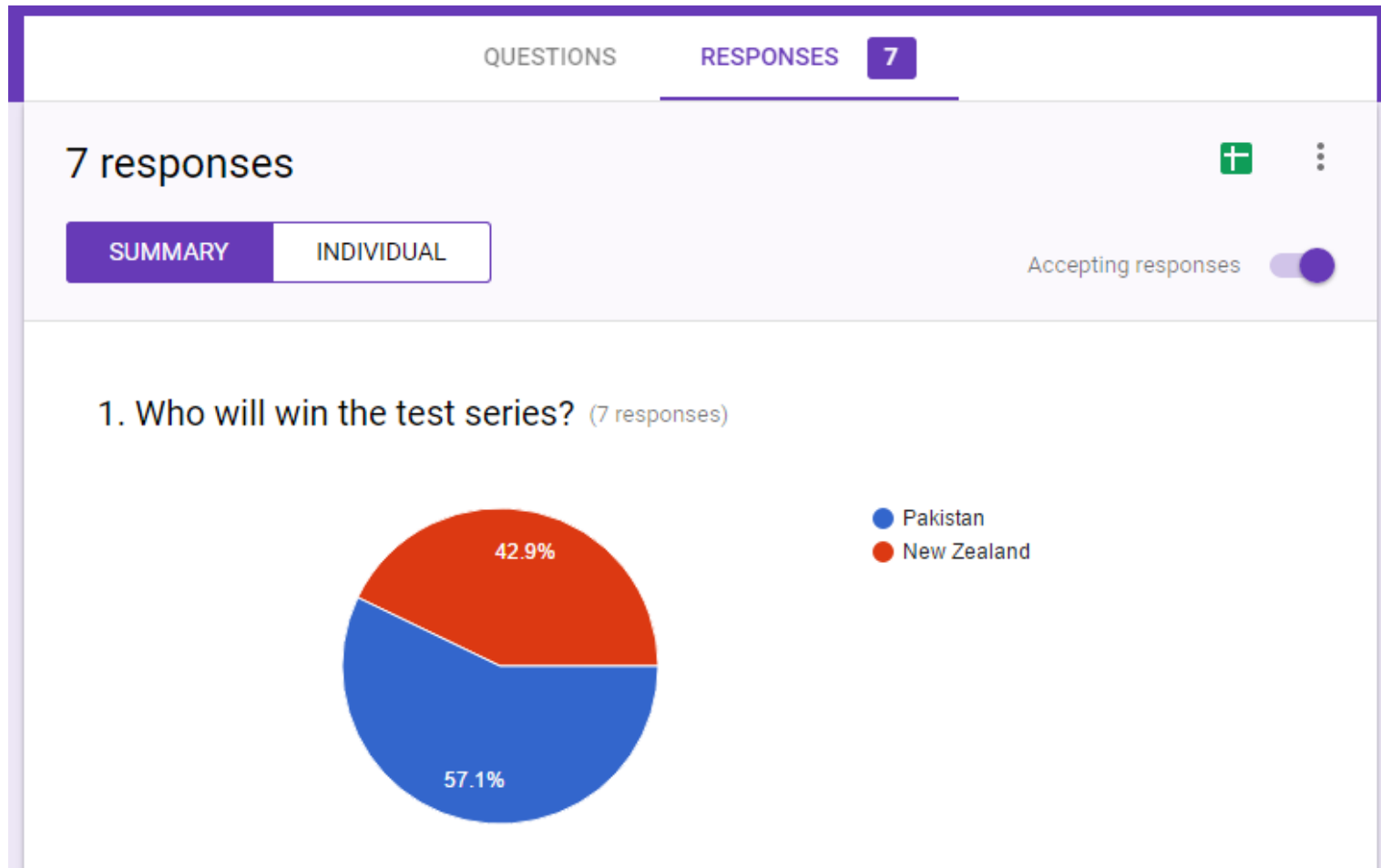
Required

1. Who will win the test series?

☐ Pakistan

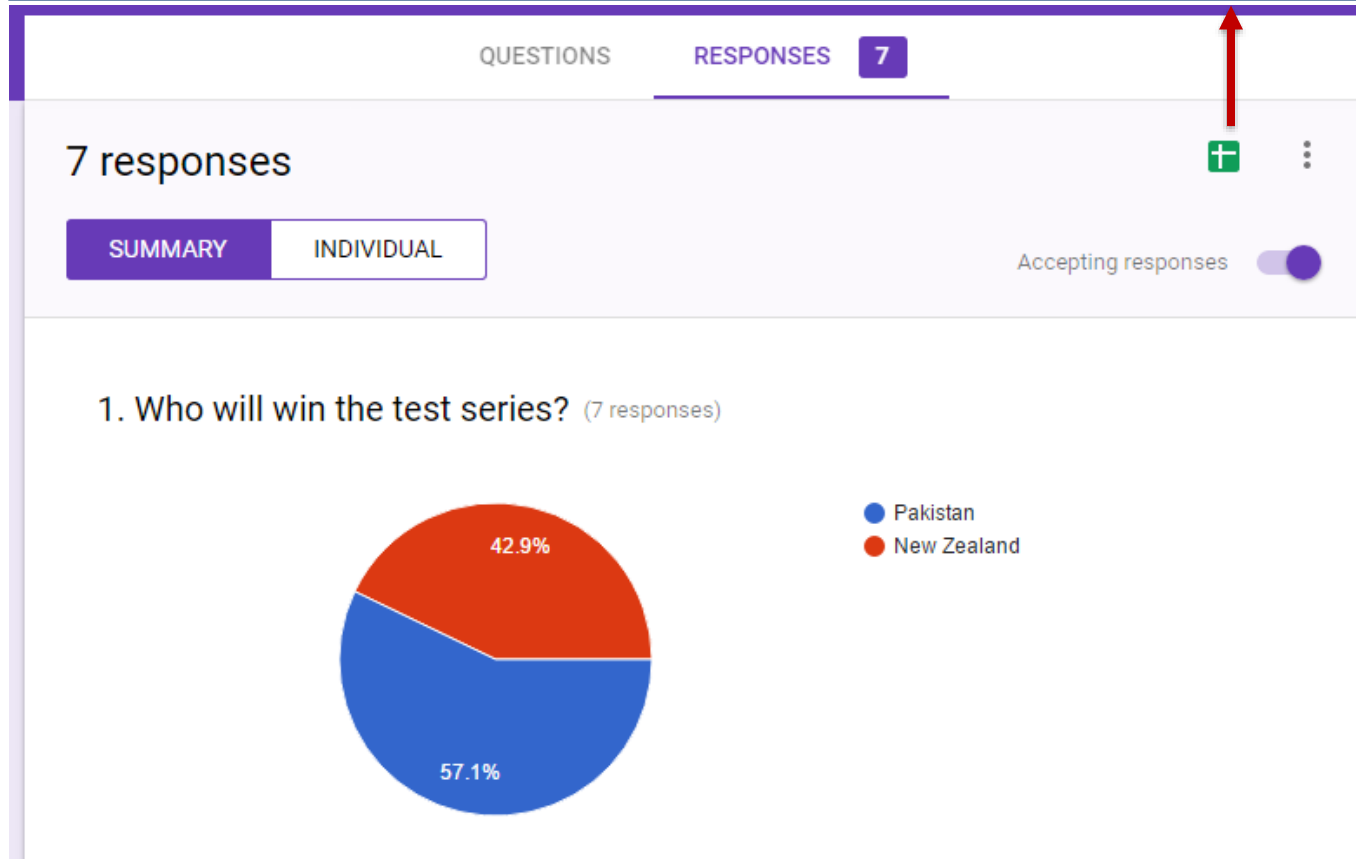
☐ New Zealand

# Summary



# View Responses in Excel

View responses in sheet



# Excel Sheet View

<div> <div> <div></div> <div>Untitled form (Responses)</div> <div>☆</div> <div></div> </div> <div> <div>File</div> <div>Edit</div> <div>View</div> <div>Insert</div> <div>Format</div> <div>Data</div> <div>Tools</div> <div>Form</div> <div>Add-ons</div> <div>Help</div> </div> </div>					
<div> <div> <div></div> <div></div> <div></div> <div></div> </div> <div> <div>\$</div> <div>%</div> <div>.0</div> <div>.00</div> <div>123</div> </div> <div> <div>Arial</div> <div></div> </div> <div> <div>10</div> <div></div> </div> <div> <div><b>B</b></div> <div><i>I</i></div> <div><u>U</u></div> <div><u>A</u></div> </div> <div> <div></div> <div></div> </div> <div> <div></div> <div></div> </div> <div> <div></div> <div></div> </div> </div>					
<div> <div>fx</div> <div>Timestamp</div> </div>					
	A	B	C	D	E
1	Timestamp	1. Who will win the test s	2. Who will be the highest	1. Who will win the test series?	
2	11/10/2016 23:08:23	Pakistan			
3	11/10/2016 23:08:39	Pakistan	Younis Khan		
4	11/10/2016 23:10:32	Pakistan	Younis Khan		
5	11/10/2016 23:13:08	New Zealand	Ken Williamson		
6	11/10/2016 23:13:21	New Zealand	Ross Taylor		
7	11/10/2016 23:13:32	New Zealand	Other		
8	11/10/2016 23:13:56	Pakistan	Misbah ul Haq		
9					
10					
11					
12					
13					
14					