User Testing Script

Intro:

- Briefing to outline the whole session
- What is the tool?
- Purpose of the tool?
- What data is involved? ODI Batting data since 1971
- **[Pre-testing questionnaire]**
- "In terms of your feedback and experience with the system, be honest and don't be afraid to share criticism. I want to know about the good, bad, and the ugly."
- "During the testing, feel free to speak up if you have any doubts or if you get stuck."
- "After the testing, I will give you a final questionnaire to fill out, where you can share feedback."

(DEPENDENT: give specific questions/instructions so that they can use the system with extra guidance, exact questions to fairly compare the responses of 8 people)

Round #1: One Chart

- Build a new chart:
    - Choose the following X-feature and Y-feature (*X: Matches_played Y: Runs*)
- I will... Break down & explain the chart. Eg. *What do dots represent?*
- Observe the generated chart. **Tell me at least one thing that you have learnt from this chart... (NO WRONG ANSWERS)**

- Decade filter. There's a lot of data in there so let's try applying a filter to narrow things down.
    - Go to filters section.
    - Select 'chart #1'.
    - We will filter the data by 'year-range' to see players within a specific decade.
    - Go to year-range. Select '2000' to be the start-year.
    - Select '2010' to be the end-year.
    - Finally, apply the filter.
    - This data represents the players who played ODI cricket in the time period 2000-2010.

- Now, let's try and apply another filter on top of this. We want to compare the batting performance of India and NZ batsmen during the 2000-2010 decade. Can you create a visualisation to show this?

- Observe the chart and compare the performance of Indian and NZ batsmen. **Tell me one thing that you learnt or observed... (NO WRONG ANSWERS)**

- Let's try searching the chart for a player.
    - Search for: Kohli.
    - **Tell me how many centuries he has scored....**

[F5 refresh]

(Independent-styled questions: let them play/experiment a bit more than prev. round. Give them prompts if they're struggling/lost)

Round #2: Four Charts

Give them at least two specific journeys:

Journey 1

- Build 4 charts. All charts must have the same feature combination with: X: matches_played, Y: strike_rate.
- We are going to look at time progression of this visualisation by comparing decades:
    - o Apply filters so that each chart displays data for a decade, in order.
    - o Therefore... chart#1 should show data for the year range: 1980-1989.
    - o Chart#2 should show data for the following decade and so on...
- Now we have 4 unique charts, each displaying data for a different decade.
- Take time to observe and analyse these charts. **Focusing on strike-rate, tell me what has changed over the decades?**

Possible Answers:

- - **An increase in average strike-rate over time**
- - **An increase in strike-rate cluster over time**

Journey 2

- Build 4 charts. All charts must have the same feature combination with: X: balls_faced Y: centuries.
- We are going to compare the performance of four different countries in scoring centuries:
  - Each chart should represent a country.
  - Use the following four countries: England, India, South Africa, Zimbabwe
- Now we have 4 unique charts, each displaying century performance for a different country.
- Take time to compare and analyse these charts:
  - **Show me the top performer in each country....**
  - **Which country do you think is performing the best, in terms of scoring centuries?**

Possible Answers:

- **Best: India's cluster is the best performing (1-11)**
- **2nd best: England has the second best cluster (1-8)**
- **3rd best: SA cluster (1-5)**

[F5 refresh]

Journey 3 (experiment)

- Create 4 charts of your own choice
- Apply at least 2 filters of your own choice
- Think of a question. Play around, investigate to see if you can discover something.

[Post-testing questionnaire]

Player prompts:

Kohli / Taylor / Southee / Gayle / Williamson / Dhoni / DeVilliers / Pandya

Feature Prompts:
- **Matches-played // Runs**
- **Innings // Strike-rate**
- **Innings // Half-cents**
- **Runs // Strike-rate**
- **Matches-played // Strike-rate**