Task 3:

Confusion:

1 out of 6 users wasn’t sure that copy/paste icon on the ribbon is tied to table (check)

Difficult:

Check video

Dislike:

2 users mentioned that it was unintuitive and cumbersome to have to double click in order to edit a cell, especially when their goal is to modify multiple cells (reco: keyboard shortcut).

Expectation:

1 user expected to highlight and edit multiple cells at the same time. They also expect to copy and paste the whole column

Keyboard shortcut:

Users would like to use the following excel keyboard shortcuts to avoid scrolling and multiple clicks

1. Ctrl + Shift + down arrow key for column selection
2. Ctrl + D for multi-cell modification.

Large Data:

1 user It is challenging to handle too many wells using flat files, so they like to use excel because it lets them zoom into data. (export)

‘It will be easy to handle large datasets using this table’

Paste Multiple:

Successfully pasted into multiple cells

Paste all in contextual menu (derived from previous table experience)

It is useful when data is somewhere else

Task 2:

Expected undo/redo

Clear all in table options

Task 4:

Look at the success rate

Copy/paste did not work as intended

4 out of 6 users used copy/paste to append data from excel to iRMS. 3 out of 4 users did not think that appending data to the table was a clean approach. Problems:

1. Filters were reset when a row is added to a filtered table
2. Due to different formats, all of them rearranged the excel sheet before transferring data
3. When faced with format errors after pasting data into iRMS, users could not understand how to resolve it.

While importing, it was not clear if the data will replace or append to the existing table.

Moving columns is easier iRMS than in excel.

Script is hard to read and it is hard to find small changes.

‘Appending checkbox in import is very useful’

Table format:

All users ensured that excel table format matches the iRMS table format.

Errors were misunderstood

Task 1: QC large datasets

Description:

Hypothesis:

Success rate: 100%

Verbatim:

‘Table looks like excel spreadsheet’

Observations

5 out of 6 users used advanced filter for date and numerical filters.

Sorting?

|  |  |  |
| --- | --- | --- |
| Concerns | Frequency | Severity |
| Sort symbol is not visible enough to indicate that the column is sorted. User did not notice that they sorted columns by accidentally clicking on column header. | 3 | Medium |
| User expected sort icon to persist on column header just like filter icon. | 2 | Low |
| User found that the advanced filter lacks proper instruction on input format (like date format) | 4 | Medium |
| User clicked on ‘Add condition’ and error message to enable ‘OK’ button to apply the filter to the table. | 2 | High |
| User believed that the table is sorted by date | 2 | Low |
| User expected indexes to be filtered out just like excel |  | Low |

Task 2: Table editing

Description:

Hypothesis:

Success rate: 100%

Verbatim:

‘It will be easy to handle large datasets using this table’

Observations

4 out of 6 users successfully modified multiple cells by selecting the column and pasting the copied value.

|  |  |  |
| --- | --- | --- |
| Concerns | Frequency | Severity |
| User was uncertain that copy and paste item on contextual ribbon was tied to the table. | 1 | Low |
| It was unintuitive and cumbersome to have to double click in order to edit a cell, specifically for multiple cell modification | 2 | Low |
| User expected to copy and paste the whole column | 1 |  |
| Users would like to use the following excel keyboard shortcuts to avoid scrolling and multiple clicks   1. Ctrl + Shift + down arrow key for column selection 2. Ctrl + D for multi-cell modification. |  | Medium |
| Script is hard to read and it is hard to find small changes. | 2 | Low |

Task 3: Quickly modifying large number of records

Description:

Hypothesis:

Success rate: 100%

Verbatim:

‘It will be easy to handle large datasets using this table’

Observations

4 out of 6 users successfully modified multiple cells by selecting the column and pasting the copied value.

|  |  |  |
| --- | --- | --- |
| Concerns | Frequency | Severity |
| User was uncertain that copy and paste item on contextual ribbon was tied to the table. | 1 | Low |
| It was unintuitive and cumbersome to have to double click in order to edit a cell, specifically for multiple cell modification | 2 | Low |
| User expected to copy and paste the whole column | 1 |  |
| Users would like to use the following excel keyboard shortcuts to avoid scrolling and multiple clicks   1. Ctrl + Shift + down arrow key for column selection 2. Ctrl + D for multi-cell modification. |  | Medium |
| Script is hard to read and it is hard to find small changes. | 2 | Low |

Task 4: Append large dataset from excel to the existing table in iRMS

Description:

Hypothesis:

Success rate: 50%

Verbatim:

‘Appending checkbox in import is very useful’

Observations

4 out of 6 users used copy/paste to append data from excel to iRMS. 3 out of 4 users did not think that appending data to the table was a clean approach.

|  |  |  |
| --- | --- | --- |
| Concerns | Frequency | Severity |
| User was surprised to see that filters were reset when a row is added to a filtered table | 1 | Medium |
| Due to different formats, all of them rearranged the excel sheet before pasting data | 6 | High |
| When faced with format errors after pasting data into iRMS, users could not understand how to resolve it. They thought that the data in excel had incorrect format type (string, date, numbers) | 5(check) | High |
| User were hesitant to import because it was not clear if the data will replace or append to the existing table. | 2 | Medium |
|  |  |  |

Overall problems:

Recommendation: