Excel:

1. Ctrl + a, Ctrl + t to transform data into table named Table1.
2. Select my table has headers to see column names. Create pivot table using Table1 in new worksheet named Answers.
3. Drag sofifa\_id to values, click value field settings, change default to count, rename to Number of Rows, return 18278. Or click column A in Table1 and bottom right corner will show count 18279; this counts header as a row.

Click row 1 with all the headers in Table1 to show count 104 in bottom right. Record answer as Number of Columns.

1. Create new pivot table in existing worksheet, add this data to data model, drag nationality to rows, drag long\_name to values, click value field settings, select distinct count, return 18218.
2. Click sort, more sort options, sort descending by distinct count of long\_names. Click value filter, click top 10.
3. Repeat above, change top 10 to top 5, click insert bar chart, add data labels, change bars to green.
4. Pivot table, drag short\_name to rows, wage\_eur to values, sort descending and top 5.
5. Repeat above with value\_eur.
6. Insert bar graph.
7. Top 10 records, go back to Table1 sheet with all the data, make a copy to a new sheet, sort nationality Germany, group else besides top 10 and hide.
8. Repeat above sort in Table1, sort on either the height, weight, or wage columns to sort, group, hide. If in pivot table, put nationality in filter, select Germany in filter, short\_name in rows, either height, weight, or wages in values, select top 5.
9. Repeat above for pivot table wages.
10. Pivot table, short name in rows, shooting in values, sort descending by shooting value, select value filter top 5.
11. To show the top 5 records, sort in copy of Table1 in new sheet. In data tab, group all other columns except short name, defending, nationality, and club. Select hide, sort remaining by defending descending, group again other records beside top 5 and hide.
12. Pivot table, short\_name in rows, club in filter, select Real Madrid, wages\_eur in values, value filter top 5.
13. Repeat above for shooting.
14. Repeat above for defending.
15. Pivot table, short\_name and nationality in rows, club in filter, select Real Madrid, value filter top 5.