XL Project log

- **Created a worksheet tab and pivot table.**

- **Freeze the headers row so that its always visible**
- Highlight the row underneath the headers row
- Click on view
- Click on ‘freeze pane’

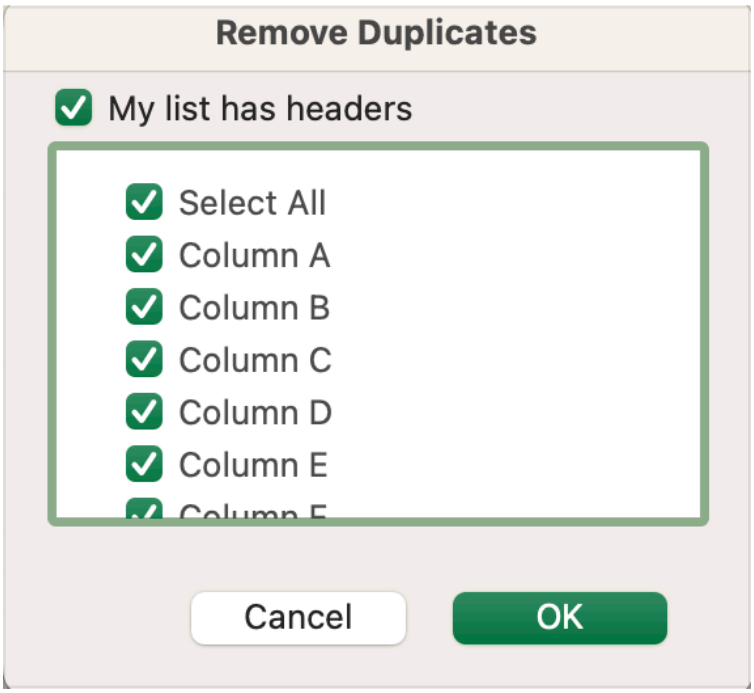
1	Name	Club	Nationality	Position	Age
2	Mason Mount	Chelsea	ENG	MF	21

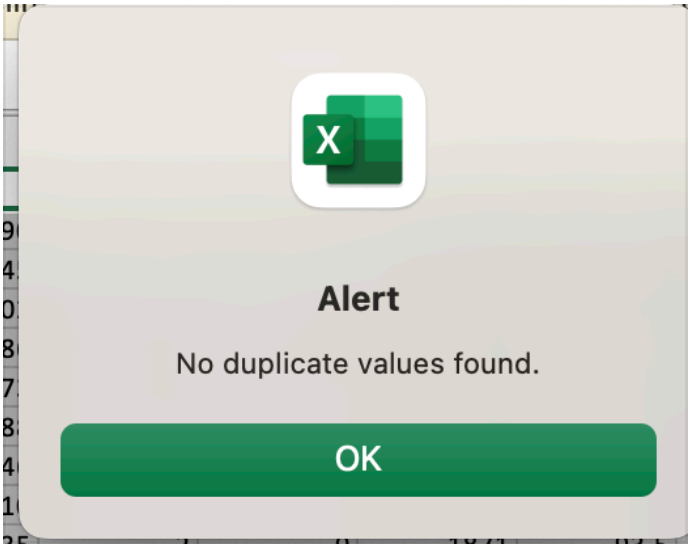
- I also highlighted the headers row to make it stand out.

- **Remove duplicates**
- Highlight all data

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
7	Cesar Azpilicueta	Chelsea	ESP	DF	30	26	24	2188	1	2	2015	87.5	0	0	0.03	0.11	5	1
8	N'Golo Kante	Chelsea	FRA	MF	29	30	24	2146	0	2	1504	86.6	0	0	0.04	0.05	7	0
9	Jorginho	Chelsea	ITA	MF	28	28	23	2010	7	1	1739	89.5	7	9	0.31	0.09	2	0
10	Thiago Silva	Chelsea	BRA	DF	35	23	23	1935	2	0	1871	93.5	0	0	0.05	0.02	5	1
11	Kurt Zouma	Chelsea	FRA	DF	25	24	22	2029	5	0	1720	91.9	0	0	0.08	0	3	0
12	Mateo Kovafcifá	Chelsea	CRO	MF	26	27	21	1815	0	1	1737	91	0	0	0.05	0.09	4	0
13	Antonio Rv¤diger	Chelsea	GER	DF	27	19	19	1710	1	0	1476	90.7	0	0	0.06	0.02	0	0
14	Christian Pulisic	Chelsea	USA	FW,MF	21	27	18	1738	4	2	690	80	0	0	0.28	0.14	2	0
15	Kai Havertz	Chelsea	GER	MF,FW	21	27	18	1520	4	3	765	86.1	0	0	0.37	0.09	2	0
16	Andreas Christensen	Chelsea	DEN	DF	24	17	15	1371	0	0	1089	92.8	0	0	0.01	0.02	2	1
17	Hakim Ziyech	Chelsea	MAR	FW,MF	27	23	15	1172	2	3	734	74.7	0	0	0.15	0.28	3	0
18	Tammy Abraham	Chelsea	ENG	FW	22	22	12	1040	6	1	218	68.3	0	0	0.56	0.07	0	0
19	Marcos Alonso	Chelsea	ESP	DF	29	13	11	960	2	0	592	81.6	0	0	0.16	0.11	2	0
20	Callum Hudson-Odoi	Chelsea	ENG	FW,DF	19	23	10	1059	2	3	659	82.2	0	0	0.12	0.26	0	0
21	Olivier Giroud	Chelsea	FRA	FW	33	17	8	748	4	0	217	74.2	0	0	0.58	0.09	1	0
22	Kepa Arrizabalaga	Chelsea	ESP	GK	25	7	6	585	0	0	243	81.5	0	0	0	0	1	0
23	Billy Gilmour	Chelsea	SCO	MF	19	5	3	261	0	0	215	89.3	0	0	0.01	0.04	0	0
24	Willy Caballero	Chelsea	ARG	GK	38	1	1	90	0	0	26	92.3	0	0	0	0	0	0
25	Ruben Loftus-Cheek	Chelsea	ENG	FW	24	1	1	60	0	0	16	68.8	0	0	0	0	0	0
26	Emerson Palmieri	Chelsea	ITA	DF	25	2	0	90	0	0	63	81	0	0	0	0	0	0
27	Fikayo Tomori	Chelsea	ENG	DF	22	1	0	45	0	0	29	93.1	0	0	0	0	0	0
28	Ross Barkley	Chelsea	ENG	MF	26	2	0	42	0	0	26	84.6	0	0	0.06	0.16	0	0
29	Ederson	Manchester (	BRA	GK	26	36	36	3240	0	1	1090	83.1	0	0	0	0.01	3	0

- Click on data tab
- Clock on remove duplicates tab

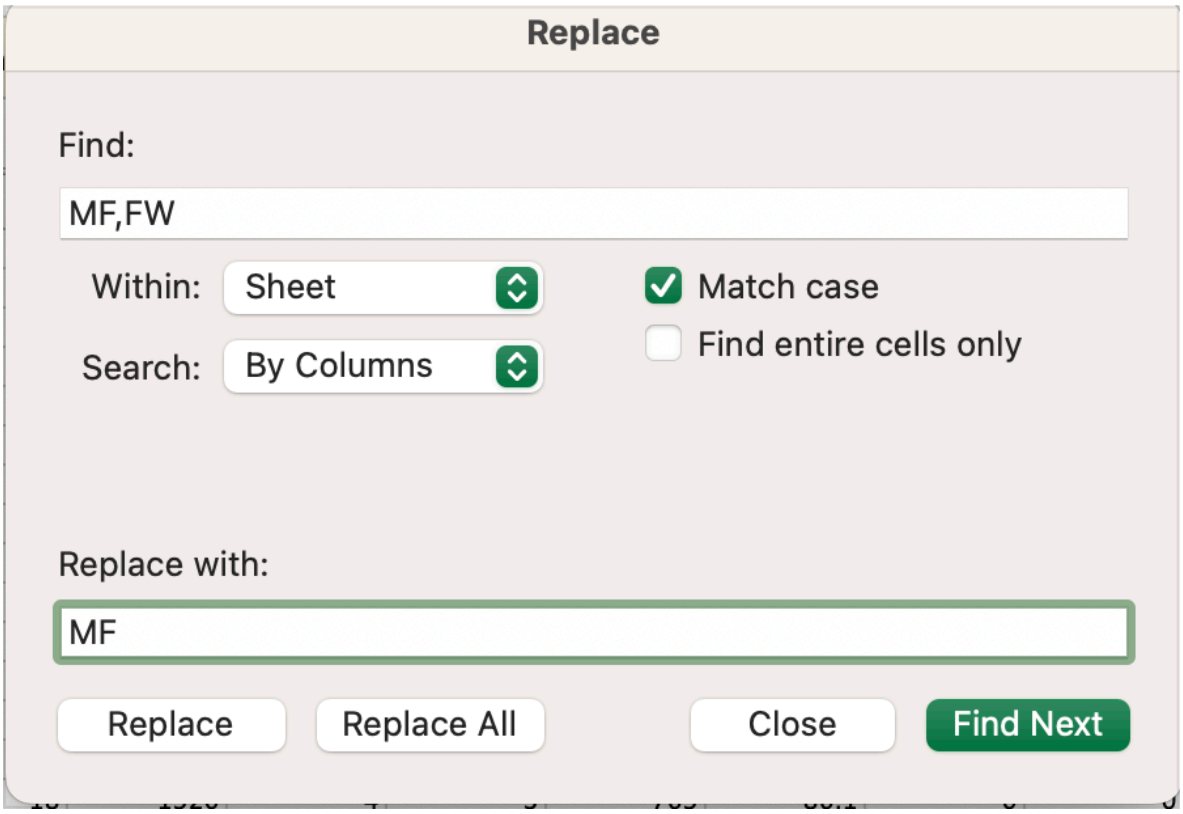


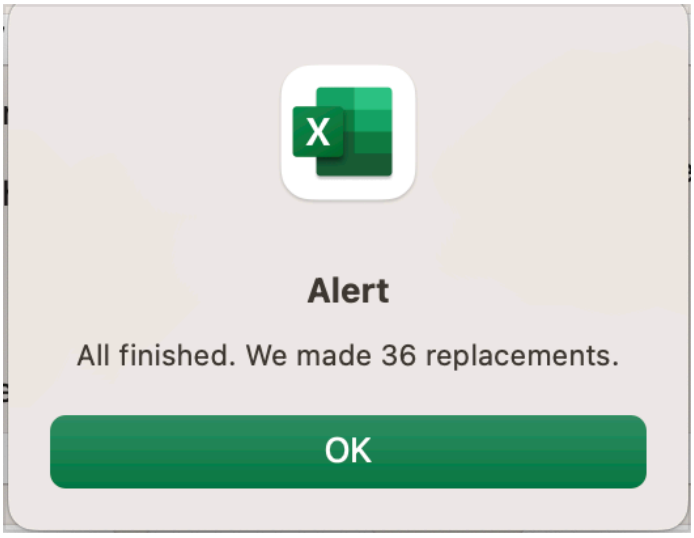


- **Replacing confusing acronyms (if there are any)**

Highlight the column I want to focus on. Using find and replace (control+H) tor eplace acronym's with their actual word. This makes it easier for those using the dashboard. In the 'Position' column, I am going to replace those that have a primary and secondary position of a player with just the players primary position, e.g. mason mount's position would be just MF, rather than: MF,FW.

Name	Club	Nationality	Position	Age
Mason Mount	Chelsea	ENG	MF,FW	21



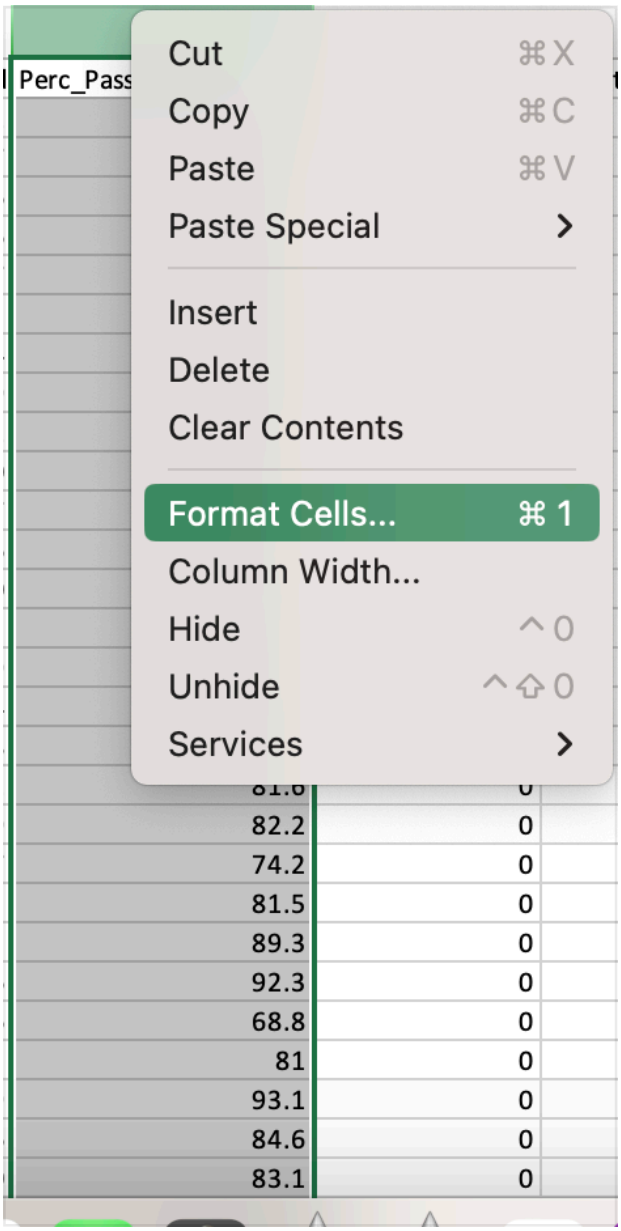


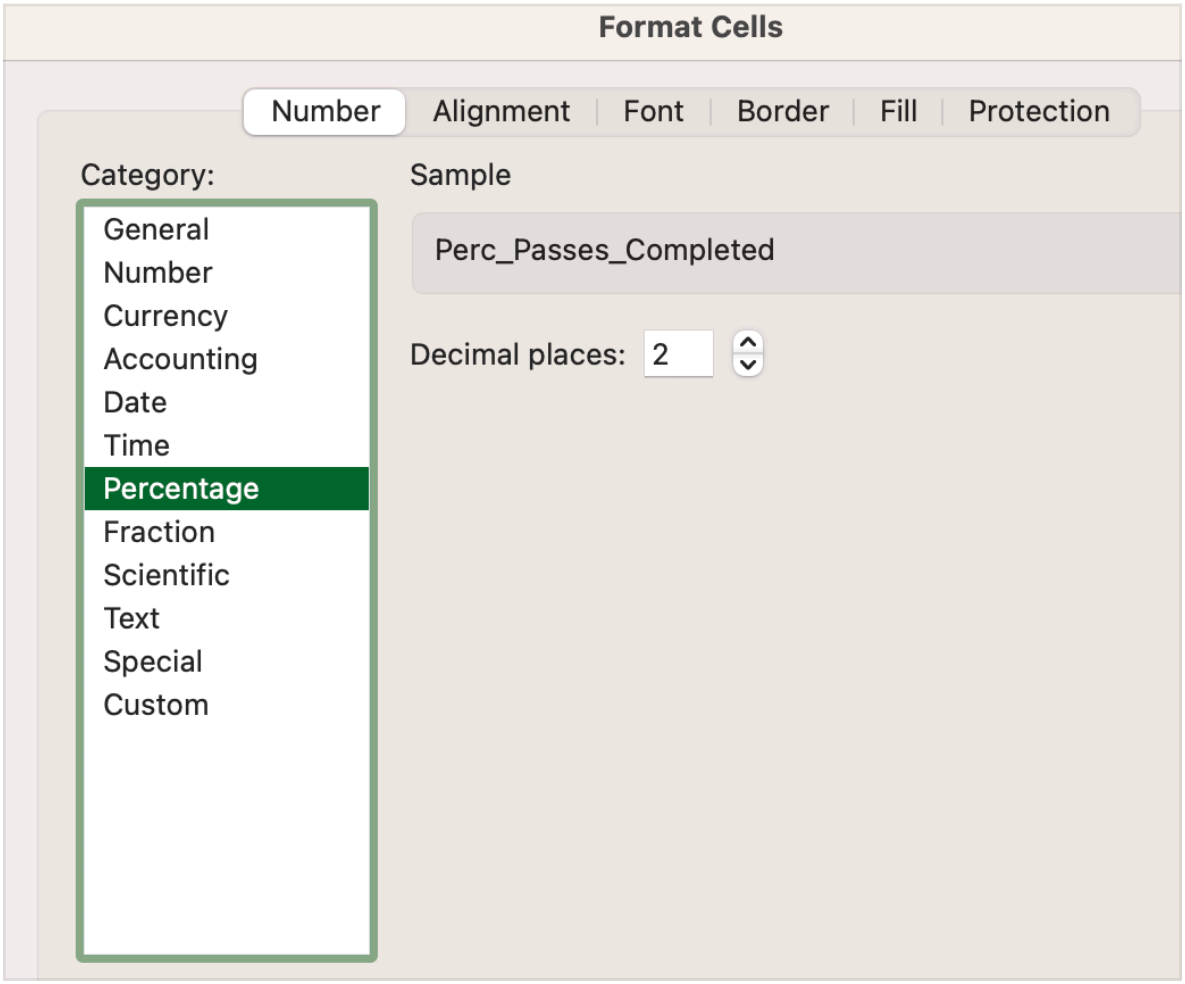
Name	Club	Nationality	Position
Mason Mount	Chelsea	ENG	MF

- Now all players have one position.

Formatting columns

- **Highlight column - right click it and click on format cells**
- The perc_passes_completed column to percentage

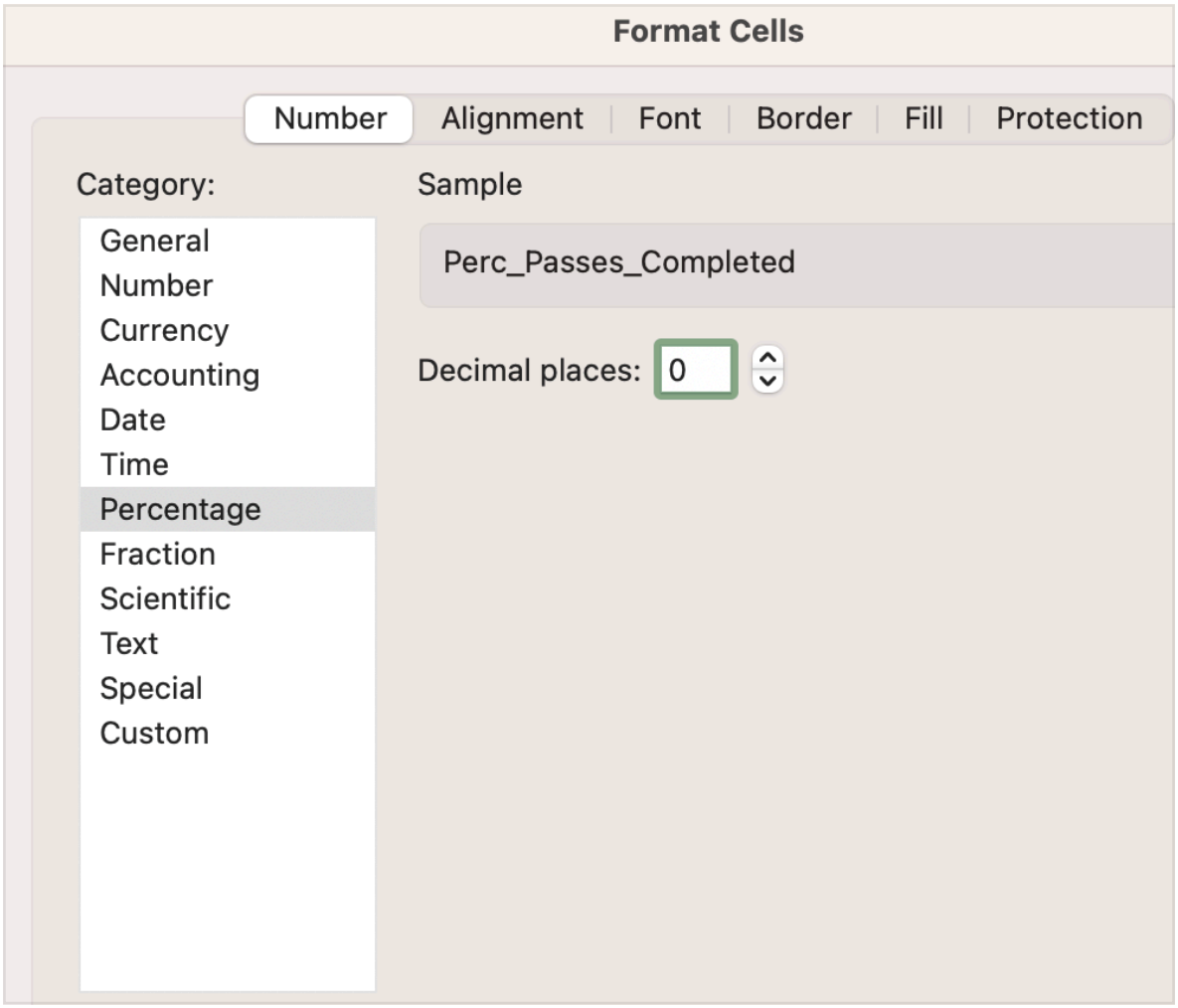

Perc_Pass
Cut ⌘X
Copy ⌘C
Paste ⌘V
Paste Special
Insert
Delete
Clear Contents
Format Cells... ⌘1
Column Width...
Hide ^0
Unhide ^⇧0
Services
82.2 0
74.2 0
81.5 0
89.3 0
92.3 0
68.8 0
81 0
93.1 0
84.6 0
83.1 0



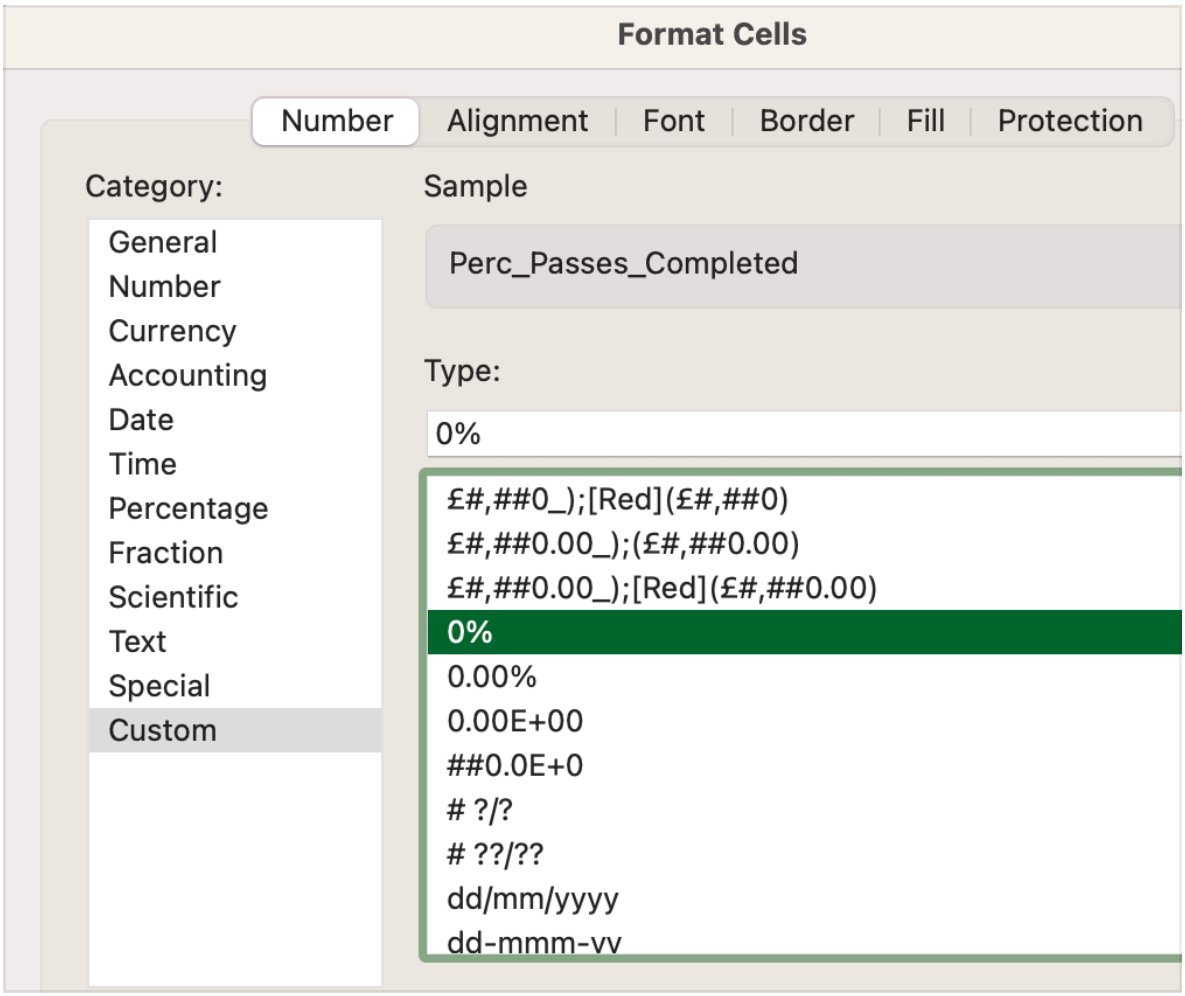
L
Perc_Passes_Completed
8230.00%
8460.00%
7720.00%
7860.00%
8500.00%
8750.00%
8660.00%
8950.00%
9350.00%
9190.00%
9100.00%
9070.00%
8000.00%
8610.00%
9280.00%
7470.00%

- Now I want to show percentage as 2 digits only
- Select column
- Right click
- Click on format cells

- Make the decimal places to zero



- Then go to custom
- Click on 0%



- That didn't work for me. Will try to change it later

L
Perc_Passes_Completed
8230%
8460%
7720%
7860%
8500%
8750%
8660%
8950%
9350%

- What I have done instead is right clicked on the column
- Went on format cells
- Clicked on numbers
- Made the decimal places to zero
- And below was the result.
- Later I will try and add the percentage signs again

L
Perc_Passes_Completed
82
85
77
79
85
88
87
90
94
92
91
91
80
86
93
75
68

- **Categorising age column**
- Currently we have ages as individuals but I will put them in brackets or ranges in a new column because it will later help me keep the visualisation looking cleaner and sharper and easier to digest.
- Create a new column called age_groups

Age_Groups

- Click on the first cell of this new column
- Use IF statement to create the age ranges. our query will be,if they are less than the age of 24, then they are young player, and if not, I will brand it as invalid.

```
=IF(F2<31,"Young player", "invalid")
```

	C	D	E	F
	Nationality	Position	Age_Groups	Age
	ENG	MF	Young player	21
	SEN	GK	Young player	28
	GER	FW	Young player	24
	ENG	DF	Young player	23
	ENG	DF	Young player	20
	ESP	DF	Young player	30
	FRA	MF	Young player	29
	ITA	MF	Young player	28

Once I write the initial IF statement, I highlight it to the whole age_groups column

- I will then build on the above IF statement and make it into a nested IF statement.

- What I ended up writing in seudo code is:

```
=IF(the age is bigger than 31, they are an old player,
IF their age is bigger than or equal to 24, they are a
mid career aged player, and lastly, if they are younger
than 24, they are a young player.
```

```
=IF(F2>31,"Old player",IF(F2>=24,"Mid career player ",IF(F2<24,"Young player","invalid")))
```

End product:

E	F
Age_Groups	**Age**
Young player	21
Mid career pl	28
Mid career pl	24
Young player	23
Young player	20
Mid career pl	30
Mid career pl	29
Mid career pl	28
Old player	35

- **Creating new column/s**
- Inserted a new column and named it goals_per_match

K
Goals_Per_Match

- Clicked on the cell underneath the header cell to enter my code:

Goals divided by matches

```
=J2/G2
```

	C	D	E	F	G	H	I	J	K
	Nationality	**Position**	**Age_Groups**	**Age**	**Matches**	**Starts**	**Mins**	**Goals**	**Goals_Per_Match**
	ENG	MF	Young player	21	36	32	2890	6	0.166666667

- I then formatted the goals per match column to show 2 digits after the decimal point

K
Goals_Per_Match
0.17
0.00
0.17
0.11
0.03
0.04
0.00

- I also added an assists per match column

M
Assists_Per_Match
0.074074074
0.111111111
0
0.130434783
0.045454545

- I added a column called passes completed so I can have an actual amount of passes players have made and compare it to how much passes they have attempted.

P
passes completed
1548
852
638
1420
1689
1763
1302

Creating Pivot Table and dashboard

EPL 2020/21 dashboard