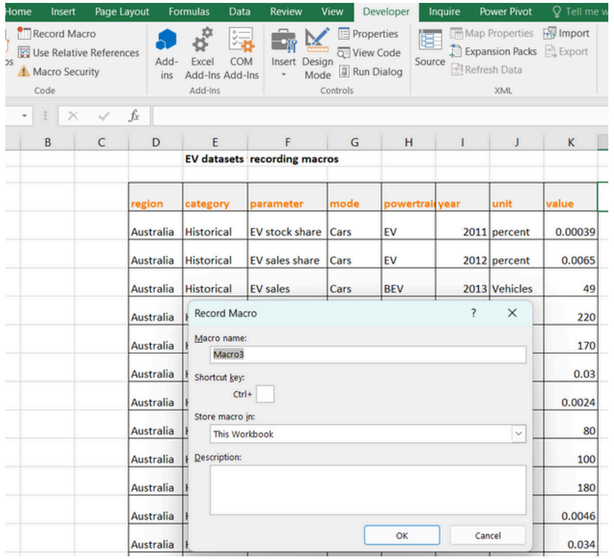
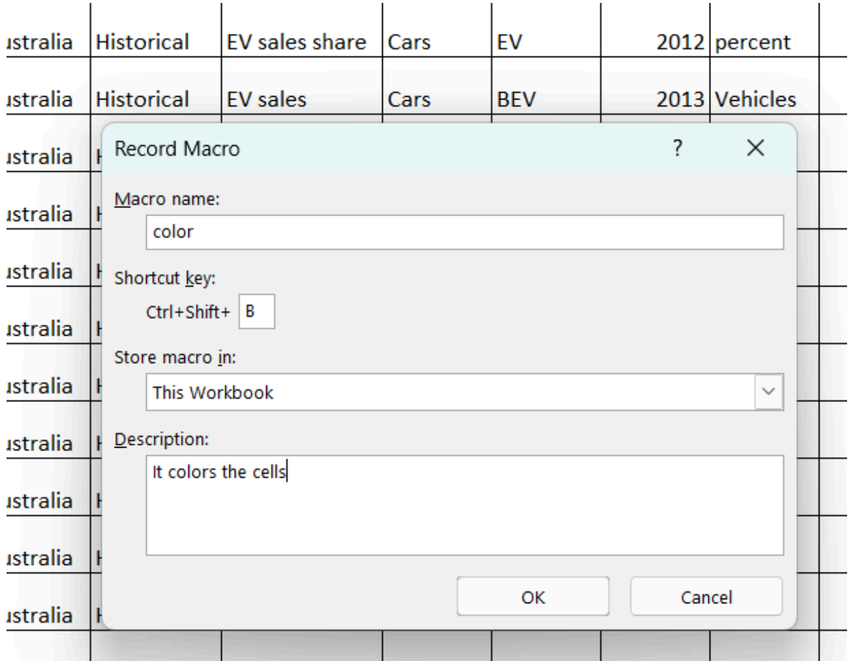
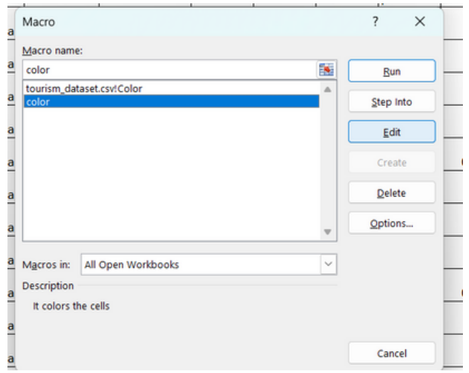
Recording and editing macros





EV datasets recording macros

region	category	parameter	mode	powertrain	year	unit	value
Australia	Historical	EV stock share	Cars	EV	2011	percent	0.00039
Australia	Historical	EV sales share	Cars	EV	2012	percent	0.0065
Australia	Historical	EV sales	Cars	BEV	2013	Vehicles	49
Australia	Historical	EV stock	Cars	BEV	2014	Vehicles	220
Australia	Historical	EV sales	Cars	BEV	2015	Vehicles	170
Australia	Historical	EV sales share	Cars	EV	2016	percent	0.03
Australia	Historical	EV stock share	Cars	EV	2017	percent	0.0024
Australia	Historical	EV stock	Cars	PHEV	2018	Vehicles	80



(General)

```
Sub color()
'
' color Macro
' It colors the cells
'
' Keyboard Shortcut: Ctrl+Shift+B
'
    With Selection.Interior
        .Pattern = xlSolid
        .PatternColorIndex = xlAutomatic
        .ThemeColor = xlThemeColorAccent2
        .TintAndShade = -0.249977111117893
        .PatternTintAndShade = 0
    End With
    Range("N5").Select
End Sub
```

Vlookup V-vertical

VLOOKUP FOR THE TOURISM DATASET

Country	Category	Visitors	Rating	Revenue
India	Nature	948853	1.32	84388.38
USA	Historical	813627	2.01	802625.6
Brazil	Historical	623329	1.09	295183.6
France	Cultural	124867	1.43	547893.2
Egypt	Cultural	389886	2.19	943411.3
China	Beach	416933	3.92	744983.2
Australia	Nature	412795	1.34	13352.38

Country	Visitors	Rating	Revenue
India	=VLOOKUP(		

VLOOKUP(**lookup_value**, table_array, col_index_num, [range_lookup])

Country	Category	Visitors	Rating	Revenue
India	Nature	948853	1.32	84388.38
USA	Historical	813627	2.01	802625.6
Brazil	Historical	623329	1.09	295183.6
France	Cultural	124867	1.43	547893.2
Egypt	Cultural	389886	2.19	943411.3
China	Beach	416933	3.92	744983.2
Australia	Nature	412795	1.34	13352.38

Country	Visitors	Rating	Revenue
India	=VLOOKUP(C19,C7:G14,3,0)		

Country	Visitors	Rating	Revenue
India	948853		
USA		1.34	

value with approximate match

Country	Visitors	Rating	Revenue
India	948853		

value with exact match

H-LOOKUP AND X-LOOKUP

HLOOKUP FOR TOURISM DATASET

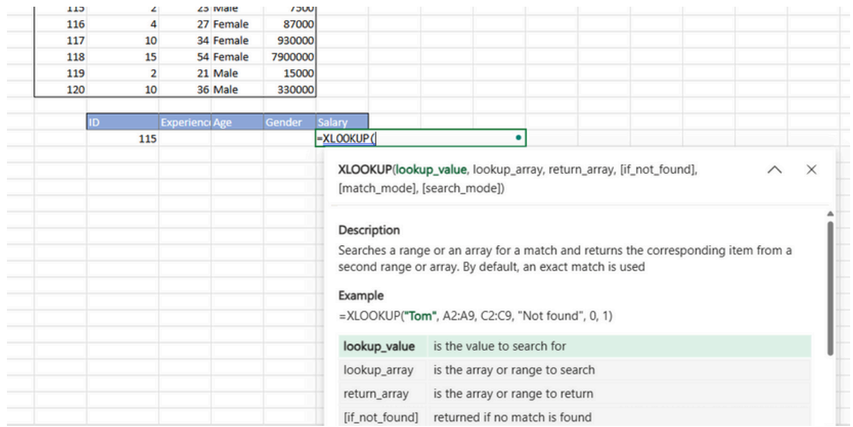
Country	India	USA	Brazil	France	Egypt
Category	Nature	Historical	Historical	Cultural	Cultural
Visitors	948853	813627	623329	124867	389886
Rating	1.32	2.01	1.09	1.43	2.19
Revenue	84388.38	802625.6	295183.6	547893.24	943411.34

Country	Revenue	Rating
Brazil	295183.6	
Egypt		2.19

XLOOKUP FOR EMPLOYEE DATASET

ID	Experience_Ye	Age	Gender	Salary
101	5	28	Female	250000
102	1	21	Male	50000
103	3	23	Female	170000
104	2	22	Male	25000
105	1	17	Male	10000
106	25	62	Male	5001000
107	19	54	Female	800000
108	2	21	Female	9000
109	10	36	Female	61500
110	15	54	Female	650000
111	4	26	Female	250000
112	6	29	Male	1400000
113	14	39	Male	6000050
114	11	40	Male	220100
115	2	23	Male	7500
116	4	27	Female	87000
117	10	34	Female	930000
118	15	54	Female	7900000
119	2	21	Male	15000
120	10	36	Male	330000

ID	Experienc	Age	Gender	Salary
115				7500



INDEX AND MATCH

INDEX FOR EMPLOYEE DATASET

ID	Experience_Years	Age	Gender	Salary
101	5	28	Female	250000
102	1	21	Male	50000
103	3	23	Female	170000
104	2	22	Male	25000
105	1	17	Male	10000
106	25	62	Male	5001000
107	19	54	Female	800000
108	2	21	Female	9000
109	10	36	Female	61500
110	15	54	Female	650000
111	4	26	Female	250000
112	6	29	Male	1400000
113	14	39	Male	6000050
114	11	40	Male	220100
115	2	23	Male	7500
116	4	27	Female	87000
117	10	34	Female	930000
118	15	54	Female	7900000
119	2	21	Male	15000
120	10	36	Male	330000

=INDEX(

INDEX(**array**, row_num, [column_num])
INDEX(**reference**, row_num, [column_num], [area_

111	4	26	Female	250000
112	6	29	Male	1400000
113	14	39	Male	6000050
114	11	40	Male	220100
115	2	23	Male	7500
116	4	27	Female	87000
117	10	34	Female	930000
118	15	54	Female	7900000
119	2	21	Male	15000
120	10	36	Male	330000

ID	Experienc	Age	Gender	Salary
=INDEX(L3:P23,6,)				

ID	Experienc	Age	Gender	Salary
105	1	17	Male	10000

MATCH FOR EMPLOYEE DATASET

ID	Experience_Years	Age	Gender	Salary
101	5	28	Female	250000
102	1	21	Male	50000
103	3	23	Female	170000
104	2	22	Male	25000
105	1	17	Male	10000
106	25	62	Male	5001000
107	19	54	Female	800000
108	2	21	Female	9000
109	10	36	Female	61500
110	15	54	Female	650000
111	4	26	Female	250000
112	6	29	Male	1400000
113	14	39	Male	6000050
114	11	40	Male	220100
115	2	23	Male	7500
116	4	27	Female	87000
117	10	34	Female	930000
118	15	54	Female	7900000
119	2	21	Male	15000
120	10	36	Male	330000

=MATCH(N6,I4:I24,0)

MATCH(lookup_value, lookup_array, [**match_type**])

Age	Gender	Salary			
28	Female	250000			
21	Male	50000		22	
23	Female	170000			
22	Male	25000	match =	5	(position)
17	Male	10000			
62	Male	5001000			
54	Female	800000			
21	Female	9000			
36	Female	61500			
54	Female	650000			

Sparklines

SPARKLINES FOR THE COST OF LIVING DATASET

	Russia	Turkey	Izmir, Turkey	Kathmandu, Nepal	Chisinau, Moldc	Milan, Ita	Sparklines
Meal, Inexpensive Restauran	7.34	4.58	3.06	1.99	4.67	15	
Meal for 2 People, Mid-range	29.35	15.28	12.22	11.92	20.74	60	
McMeal at McDonalds (or Ec					4.15	8	
Domestic Beer (0.5 liter drau					1.04	5	
Imported Beer (0.33 liter bot					1.43	5	
Coke/Pepsi (0.33 liter bottle					0.64	2.49	
Water (0.33 liter bottle)					0.44	1.12	
Milk (regular), (1 liter)					0.68	1.21	
Loaf of Fresh White Bread (5	0.71	0.36	0.38	0.43	0.33	1.94	
Eggs (regular) (12)	1.18	1.62	1.51	1.29	1.11	2.87	
Local Cheese (1kg)	7.6	5.32	4.97	7.48	5.79	13.54	
Water (1.5 liter bottle)	0.63	0.33	0.29	0.28	0.59	0.4