Using Data Validation, Sort and Filter

		GENDER	PERFORMANCE	SORT (Ascending)	
		Female ▼	Excellent ▼	☑	
Filter & Sort					
ssn	lastname	firstname	hiredate	salary	gender	performance
333-66-1234	Brown	Marietta	3/7/2001	$18,500	Female	Excellent
000-02-2222	Adams	Sandy	1/15/2001	$19,500	Female	Excellent
109-87-6543	Wood	Emily	3/12/1997	$69,000	Female	Excellent
=SORT(FILTER(EMPLOYEE, (SALARY < 80000) * (PERFORMANCE = L10) * (GENDER = K10)), 5, M10)						

Using Conditional Formatting

Conditional Formatting

ssn	lastname	firstname	hiredate	salary	gender	performance	PROMOTE
000-01-0000	**Milgrom**	**Patricia**	**10/1/2004**	**$57,500**	**Female**	**Average**	☑
000-02-2222	Adams	Sandy	1/15/2001	$19,500	Female	Excellent	☐
109-87-6543	**Wood**	**Emily**	**3/12/1997**	**$69,000**	**Female**	**Excellent**	☑
109-87-6544	Foster	Harold	8/14/2005	$55,000	Male	Good	☐
111-12-1111	Johnson	James	5/3/1996	$47,500	Female	Good	☐
123-45-6789	**Coulter**	**Tracy**	**2/14/1993**	**$100,000**		**Good**	☑
222-23-2222	Marlin	Bill	3/28/1977	$125,000	Male		☐
222-52-5555	**Smith**	**Mary**	**1/1/2006**	**$42,500**	**Female**	**Average**	☑
245-67-8910	Johanson	Sandy	6/2/2005	$69,000	Female		☐
333-34-3333	Manin	Emily	12/1/2000	$49,500	Female	Average	☐
333-43-4444	**Smith**	**Frank**	**1/29/1991**	**$65,000**	**Male**	**Good**	☑
333-66-1234	Brown	Marietta	3/7/2001	$18,500	Female	Excellent	☐
335-55-5533	**Jones**	**Holly**	**4/8/1986**	**$65,000**	**Female**	**Good**	☑

Using Query Function

To Do							
Create **drop down list** to filter our table							
Performance	**Gender**	**Sort**					
Excellent ▼	Male ▼	desc ▼	=QUERY(EMPLOYEES, "select * where G = '"&I7&"' and F ='"&J7&"' order by E "&K7&"")				
ssn	**lastname**	**firstname**	**hiredate**	**salary**	**gender**	**performance**	
464-64-4466	Webster	David	1/29/1991	$58,500	Male	Excellent	
776-67-6666	Adamson	David	10/4/2002	$52,000	Male	Excellent	
555-56-5555	Charles	Kenneth	6/18/1998	$40,000	Male	Excellent	

Using Text, Date and Vlookup Function

				change to eng date
TH Date	**Day**	**Month**	**Year**	**EN Date**
12 ธ.ค. 2563	12	12	2020	2020-12-12
25 พ.ย. 2561	25	11	2018	2018-11-25
09 ก.ย. 2562	09	9	2019	2019-09-09
07 ม.ค. 2560	07	1	2017	2017-01-07
15 เม.ย. 2563	15	4	2020	2020-04-15
06 มิ.ย. 2563	06	6	2020	2020-06-06
Day	=ArrayFormula(LEFT(D4:D9,2))			
Month	=ArrayFormula(Vlookup(TRIM(MID(D4:D9,4,5)),$A$4:$B$15,2,0))			
Year	=ArrayFormula(RIGHT(D4:D9,4)-543)			
EN Date	=ArrayFormula(DATE(G4:G9,F4:F9,E4:E9))			

Using Regexextract Function

Project - ID Card Parser

Customer Information	ID	Gender	Firstname	Lastname	DOB	Age	Address	Zipcode	Expired Date	Expired This Year
ID 1-1078-00555-99-1 Mr. John David Date of Birth 20 Sep 1988 Address 67 Bangkok Thailand 10560 Expired Date 31 Dec 2023	1-1078-00555-99-1	male	John	David	20 Sep 1988	35	67 Bangkok Thailand	10560	31 Dec 2023	TRUE
ID 3-5522-87666-87-2 Miss. Carry Anna Date of Birth 18 Jan 1995 Address 967 Tokyo Japan 10880 Expired Date 25 Apr 2025	3-5522-87666-87-2	female	Carry	Anna	18 Jan 1995	28	967 Tokyo Japan	10880	25 Apr 2025	FALSE
ID 1-2222-03874-23-6 Mr. Kevin Demio Date of Birth 14 Feb 1992 Address 7878 Washington United States 11155 Expired Date 31 Oct 2020	1-2222-03874-23-6	male	Kevin	Demio	14 Feb 1992	31	7878 Washington United States	11155	31 Oct 2020	FALSE
ID 1-1078-00555-99-1 Mr. Stuart Lonely Date of Birth 20 Sep 1982 Address 554 Seoul Korea 89237 Expired Date 31 Mar 2024	1-1078-00555-99-1	male	Stuart	Lonely	20 Sep 1982	41	554 Seoul Korea	89237	31 Mar 2024	FALSE
ID 1-1078-00555-99-1 Miss. Anya Tayloy Date of Birth 05 May 1985 Address 998 London United Kingdom 55387 Expired Date 15 Nov 2025	1-1078-00555-99-1	female	Anya	Tayloy	05 May 1985	38	998 London United Kingdom	55387	15 Nov 2025	FALSE

Guideline	นักเรียนลองปรับใช้จากตรงนี้ได้นะครับ Regex สามารถเขียนได้หลายแบบเลย 🥰			
ID	=REGEXEXTRACT(A2, "[0-9]-[0-9]{4}-[0-9]{5}-[0-9]{2}-[0-9]")	[0-9] = \d	=ArrayFormula(REGEXEXTRACT(A4:A8,"[0-9]-[0-9]{4}-[0-9]{5}-[0-9]{2}-[0-9]{1}"))
Gender	=REGEXEXTRACT(A2, "M[a-z]+\.")		=ArrayFormula(SWITCH(REGEXEXTRACT(A4:A8,"M[a-z]+\."),"Mr.","male","Mrs.","female","Miss.","female"))
Firstname	=REGEXEXTRACT(A2, "M[a-z]+\. ([A-Za-z]+) [A-Za-z]+")		=ArrayFormula(REGEXEXTRACT(A4:A8, "M[a-z]+\. ([A-Za-z]+) [A-Za-z]+"))
Lastname	=REGEXEXTRACT(A2, "M[a-z]+\. [A-Za-z]+ ([A-Za-z]+)")		=ArrayFormula(REGEXEXTRACT(A4:A8, "M[a-z]+\. [A-Za-z]+ ([A-Za-z]+)"))
DOB	=REGEXEXTRACT(A2,"Date of Birth ([0-9]{2} [A-Za-z]+ [0-9]{4})")		=ArrayFormula(REGEXEXTRACT(A4:A8, "Date of Birth ([0-9]{2} [A-Za-z]{3} [0-9]{4})"))
Age	=DATEDIF(F2, TODAY(), "Y")		=ArrayFormula(DATEDIF(F4:F8,today(),"y"))
Address	=REGEXEXTRACT(A2,"Address ([0-9]+ [A-Za-z]+ [A-Za-z]+)")		=ArrayFormula(IFERROR(REGEXEXTRACT(A4:A8,"Address (\d+ [A-Za-z]+ [A-Za-z]+) \d{5}"), REGEXEXTRACT(A4:A8,"Address (\d+ [A-Za-z]+ [A-Za-z]+ [A-Za-z]+) \d{5}")))
Zipcode	=TRIM(REGEXEXTRACT(A2," \d{5}"))		=ArrayFormula(TRIM(REGEXEXTRACT(A4:A8, " \d{5}")))
Expired Date	=REGEXEXTRACT(A2, "Expired Date (\d{2} \w{3} \d{4})")		=ArrayFormula(REGEXEXTRACT(A4:A8, "Expired Date ([0-9]{2} [A-Za-z]{3} [0-9]{4})"))
Expired This Year	=RIGHT(J2,4)="2020"		=ArrayFormula(IF(YEAR(J4:J8)=2023,TRUE,FALSE))

Creating my own formula

CELSIUS	FAHRENHEIT	
25	77	=ArrayFormula(CEL_TO_FAH(B13:B17))
32	89.6	
43	109.4	
57	134.6	
100	212	

Using Vlookup Function

positionID	locationID	locationcity	address	state	zipcode	officephone	positiontitle	educationrequi	minsalary	maxsalary
		=ArrayFormula(VLOOKUP(I5:I29,$A$33:$F$40,{2,3,4,5,6},FALSE))					=ArrayFormula(VLOOKUP(H5:H29,$A$44:$E$47,{2,3,4,5},FALSE))			
		put every column here								
2	2	Boston	3 Commons Bl	MA	2190	(617)123-4444	Manager	4 year degree	50000	150000
3	1	Atlanta	450 Peachtree	GA	30316	(404)333-5555	Trainee	2 year degree	18000	25000
2	5	New York City	1650 Washingto	NY	15648	(518)256-3100	Manager	4 year degree	50000	150000
1	3	Chicago	500 Loop High	IL	60620	(312)444-6666	Account Repre:	4 year degree	25000	75000
1	3	Chicago	500 Loop High	IL	60620	(312)444-6666	Account Repre:	4 year degree	25000	75000
2	1	Atlanta	450 Peachtree	GA	30316	(404)333-5555	Manager	4 year degree	50000	150000
2	4	Miami	210 Biscayne Bl	FL	33103	(305)787-9999	Manager	4 year degree	50000	150000
1	3	Chicago	500 Loop High	IL	60620	(312)444-6666	Account Repre:	4 year degree	25000	75000
1	6	Denver	312 Mount View	CO	54657	(205)607-5289	Account Repre:	4 year degree	25000	75000
1	2	Boston	3 Commons Bl	MA	2190	(617)123-4444	Account Repre:	4 year degree	25000	75000
1	1	Atlanta	450 Peachtree	GA	30316	(404)333-5555	Account Repre:	4 year degree	25000	75000
3	1	Atlanta	450 Peachtree	GA	30316	(404)333-5555	Trainee	2 year degree	18000	25000
2	5	New York City	1650 Washingto	NY	15648	(518)256-3100	Manager	4 year degree	50000	150000
2	6	Denver	312 Mount View	CO	54657	(205)607-5289	Manager	4 year degree	50000	150000