

Project: Dynamic Query

Project - Dynamic Query						
ssn	lastname	firstname	hiredate	salary	gender	performance
000-01-0000	Milgrom	Patricia	10/1/2004	\$57,500	F	Average
222-52-5555	Smith	Mary	1/1/2006	\$42,500	F	Average
245-67-8910	Johanson	Sandy	6/2/2005	\$69,000	F	
333-34-3333	Manin	Emily	12/1/2000	\$49,500	F	Average
333-43-4444	Smith	Frank	1/29/1991	\$65,000	M	Good
333-66-1234	Brown	Marietta	3/7/2001	\$18,500	F	Poor
335-55-5533	Jones	Holly	4/8/1986	\$65,000	F	Good
432-19-8765	Bronson	Paul	11/20/2003	\$58,000	M	Good
444-45-4444	Frank	Vernon	4/10/1985	\$75,000	M	Good
464-64-4466	Webster	David	1/29/1991	\$58,500	M	Poor
500-50-0505	Rodriguez	Jose	7/16/1998	\$150,000	M	Good
555-22-3333	Rubin	Patricia	7/25/2003	\$45,000	F	Average
555-56-5555	Charles	Kenneth	6/18/1998	\$40,000	M	Poor
612-99-1111	Roberts	Melissa	5/14/1984	\$79,000	F	Good
625-62-6262	Holmes	Holly	6/15/1992	\$55,000	F	Average
767-74-7373	Martin	William	8/26/2006	\$23,000	M	Good
776-67-6666	Adamson	David	10/4/2002	\$52,000	M	Poor
777-78-7777	Marder	Kelly	9/25/1997	\$38,500	F	Average
925-45-7116	Whitehead	David	7/25/1980	\$175,000	M	Good
Performance	Poor					
Gender	M					
=QUERY(EMPJR,"SELECT C,B,D , F,G WHERE F=' " & B31 & "' AND G = "' & B30 & "'")						
firstname	lastname	hiredate	gender	performance		
David	Webster	1/29/1991	M	Poor		
Kenneth	Charles	6/18/1998	M	Poor		
David	Adamson	10/4/2002	M	Poor		

Project: Convert TH to EN Date

Project - Convert TH to EN Date						
Lookup Table		TH Date	Day	Month	Year	EN Date
U.A.	1	12 S.A. 2563	12	12	2020	12-12-2020
N.W.	2	25 W.B. 2561	25	11	2018	25-11-2018
D.A.	3	09 N.B. 2562	09	9	2019	09-09-2019
W.B.	4	07 M.A. 2560	07	1	2017	07-01-2017
W.A.	5	15 W.B. 2563	15	4	2020	15-04-2020
D.B.	6	06 M.B. 2563	06	6	2020	06-06-2020
N.A.	7					
S.A.	8	Day	=ArrayFormula(LEFT(D4:D9,2))			
N.B.	9	Month	=ArrayFormula(VLOOKUP(REGEXEXTRACT(D4:D9,"[n-æ]."),A4:B15,2,FALSE))			
D.A.	10	Year	=ArrayFormula(REGEXEXTRACT(D4:D9,"d{4}")-543)			
W.B.	11	EN Date	=ArrayFormula(DATE(G4:G9,F4:F9,E4:E9))			
S.A.	12					

Enriching Our Data with VLOOKUP

Employee										ArrayFormula(VLOOKUP(H5:J23, LOCATION, {2,3,4,5,6}, FALSE))										ArrayFormula(VLOOKUP(H5:H23, POSITION, {2,3,4,5}, FALSE))									
sen	lastname	firstname	hiredate	salary	gender	performance	positionID	locationID	locationname	address	state	zipcode	officename	positiontitle	education	minsalary	maxsalary												
000-01-0000	Milgram	Patricia	10/1/2004	\$57,500	F	Average	2	2	Boston	3 Commons Bl MA			2190	617/232-4444	Manager	4 year degree	\$50,000	\$150,000											
000-02-2222	Adams	Sandy	1/15/2001	\$19,500	F	Average	3	1	Atlanta	405 Peachtree GA			30316	404/323-5555	Trainee	2 year degree	\$18,000	\$25,000											
109-87-6543	Wood	Emily	3/21/1997	\$69,000	F	Average	2	5	New York City	1650 Washington NJ			15648	918/256-2100	Manager	4 year degree	\$50,000	\$150,000											
109-87-6544	Foster	Harold	8/14/2005	\$55,000	M	Good	1	3	Chicago	500 Loop High IL			60620	312/444-6666	Account Rep	4 year degree	\$25,000	\$75,000											
109-87-6545	Johnson	James	5/3/1996	\$45,000	M	Good	1	3	Chicago	500 Loop High IL			60620	312/444-6666	Account Rep	4 year degree	\$25,000	\$75,000											
123-45-6789	Coulter	Tracy	2/24/1993	\$100,000	M	Good	2	1	Atlanta	405 Peachtree GA			30316	404/323-5555	Manager	4 year degree	\$50,000	\$150,000											
123-23-2222	Marlin	Bill	3/18/1977	\$125,000	M	Good	2	4	Miami	210 Biscayne B FL			33103	305/787-9999	Manager	4 year degree	\$50,000	\$150,000											
123-22-5555	Smith	Mary	1/1/2006	\$42,500	F	Average	1	3	Chicago	500 Loop High IL			60620	312/444-6666	Account Rep	4 year degree	\$25,000	\$75,000											
245-67-8910	Johanson	Sandy	6/2/2005	\$69,000	F	Average	1	6	Denver	312 Mount View CO			54657	205/607-5289	Account Rep	4 year degree	\$25,000	\$75,000											
333-34-3333	Manin	Emily	12/1/2000	\$49,500	F	Average	1	2	Boston	3 Commons Bl MA			2190	617/232-4444	Account Rep	4 year degree	\$25,000	\$75,000											
333-43-4444	Smith	Frank	1/21/1991	\$65,000	M	Good	1	1	Atlanta	405 Peachtree GA			30316	404/323-5555	Account Rep	4 year degree	\$25,000	\$75,000											
333-43-4444	Brown	Marietta	3/7/2006	\$184,000	F	Good	1	3	Atlanta	405 Peachtree GA			30316	404/323-5555	Trainee	2 year degree	\$25,000	\$75,000											
335-95-6543	Holly	Jones	10/8/1986	\$55,000	F	Good	2	5	New York City	1650 Washington NJ			15648	918/256-2100	Manager	4 year degree	\$50,000	\$150,000											
419-87-6765	Bronson	Paul	11/20/2003	\$58,000	M	Good	2	6	Denver	312 Mount View CO			54657	205/607-5289	Manager	4 year degree	\$50,000	\$150,000											
444-45-4444	Frank	Vernon	4/10/1985	\$75,000	M	Good	1	4	Miami	210 Biscayne B FL			33103	305/787-9999	Account Rep	4 year degree	\$25,000	\$75,000											
444-64-4466	Webster	David	1/21/1991	\$58,500	M	Poor	2	7	Salt Lake City	316 S. State UT			84125	801/459-6652	Manager	4 year degree	\$50,000	\$150,000											
500-50-0505	Rodriguez	Jose	7/16/1998	\$150,000	M	Good	4	5	New York City	1650 Washington NJ			15648	918/256-2100	Regional Man	6 year degree	\$100,000	\$250,000											
555-22-3333	Rubin	Patricia	7/25/2003	\$45,000	F	Average	1	2	Boston	3 Commons Bl MA			2190	617/232-4444	Account Rep	4 year degree	\$25,000	\$75,000											
555-56-5555	Charles	Kenneth	6/18/1998	\$40,000	F	Poor	1	2	Boston	3 Commons Bl MA			2190	617/232-4444	Account Rep	4 year degree	\$25,000	\$75,000											
625-69-7111	Roberts	Melissa	5/14/1984	\$79,000	F	Good	2	3	Chicago	500 Loop High IL			60620	312/444-6666	Manager	4 year degree	\$50,000	\$150,000											
625-62-6262	Holmes	Holly	6/15/1992	\$55,000	F	Good	4	4	Miami	210 Biscayne B FL			33103	305/787-9999	Manager	4 year degree	\$50,000	\$150,000											
767-74-7373	Martin	William	8/26/2006	\$23,000	M	Good	3	5	New York City	1650 Washington NJ			15648	918/256-2100	Trainee	2 year degree	\$18,000	\$25,000											
767-67-6666	Adamson	David	10/4/2002	\$52,000	M	Poor	2	3	Chicago	500 Loop High IL			60620	312/444-6666	Manager	4 year degree	\$50,000	\$150,000											
771-78-7777	Marder	Kelly	9/25/1987	\$38,500	F	Average	1	3	Chicago	500 Loop High IL			60620	312/444-6666	Account Rep	4 year degree	\$25,000	\$75,000											
825-45-7116	Whitehead	David	7/25/1980	\$175,000	M	Good	4	2	Boston	3 Commons Bl MA			2190	617/232-4444	Regional Man	6 year degree	\$100,000	\$250,000											

Project: ID Card Parser

Project - ID Card Parser										
Customer Information	ID	Gender	Firstname	Lastname	DOB	Age	Address	Zipcode	Expired Date	Expired This Year
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	27	967 Tokyo Japan 10880	10880	25 Apr 2025	No
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	30	7878 Washington United States 11155	11155	31 Oct 2020	No
ID 1-1078-00555-99-1 Mr. Stuart Lonely Date of Birth 20 Sep 1982 Address 554 Seoul Korea 89237 Expired Date 31 Mar 2021	1-1078-00555-99-1	Male	Stuart	Lonely	20 Sep 1982	39	554 Seoul Korea 89237	89237	31 Mar 2021	No
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 2022	1-1078-00555-99-1	Female	Anya	Tayloy	05 May 1985	37	998 London United Kingdom 55387	55387	15 Nov 2022	Yes
	Answer									
	ID	=ArrayFormula(REGEXEXTRACT(A4:A8,"d-[d(4)-[d(5)-[d(2)-[d(1)"]")								
		=ArrayFormula(SWITCH(REGEXEXTRACT(A4:A8,"M[rs]+.")								
	Gender	"Mr.;"Male"								
		"Miss.;"Female"								
		"Mrs.;"Female")								
	Firstname	=ArrayFormula(REGEXEXTRACT(A4:A8,"M[rs]+. ([A-z]+)")								
	Lastname	=ArrayFormula(REGEXEXTRACT(A4:A8,"M[rs]+. [A-z]+ ([A-z]+)")								
	DOB	=ArrayFormula(REGEXEXTRACT(A4:A8,"Date of Birth ([0-9]+ [A-z]{3} [0-9]{4})"))								
	Age	=ArrayFormula(datediff(F4:F8,today()),"Y")								
	Address	=ArrayFormula(REGEXEXTRACT(A4:A8,"Address ([0-9]+ [A-z]{1} "[A-z]" "[A-z]" "[A-z]" "[0-9]+)")								
	Zipcode	=ArrayFormula(REGEXEXTRACT(A4:A8,"Address [0-9]+ [A-z]{1} "[A-z]" "[A-z]" "[A-z]" "[0-9]+)")								
	Expired Date	=ArrayFormula(REGEXEXTRACT(A4:A8,"Expired Date ([0-9]+ [A-z]{1} "[A-z]" "[A-z]" "[0-9]+)")								
	Expired This Year	=ArrayFormula(if((year(J4:J8) = year(today())), "Yes","No"))								