

The SAS System

candidate_party	resp_party	year	gender	age
Democrat	Independent	2016	Female	34
Democrat	Independent	2016	Female	27
Democrat	Democrat	2020	Male	60
Independent	Democrat	2028	Male	33
Republican	Democrat	2016	Male	66
Democrat	Republican	2020	Female	24
Republican	Republican	2024	Male	31
Republican	Republican	2012	Female	20
Republican	Other	2036	Male	22
Republican	Republican	2020	Male	53
Democrat	Democrat	2016	Female	52
Republican	Independent	2020	Male	63
Republican	Republican	2020	Female	49
Democrat	Democrat	2012	Male	26
Independent	Independent	2012	Female	29
Democrat	Democrat	2040	Female	40
Republican	Democrat	2020	Male	33
Republican	Independent	2024	Male	32
Independent	Independent	2024	Male	22
Republican	Republican	2032	Female	18
Democrat	Republican	2028	Male	23
Republican	Independent	2020	Female	19
Democrat	Other	2016	Male	35
Democrat	Democrat	2016	Female	51
Democrat	Other	2020	Male	21
Republican	Republican	2040	Male	38
Democrat	Democrat	2016	Female	42
Independent	Independent	2016	Female	59
Democrat	Independent	2020	Female	20
Democrat	Independent	2024	Male	49
Democrat	Independent	2012	Female	26
Democrat	Republican	2020	Male	26
Republican	Other	2012	Male	55
Republican	Other	2040	Male	37
Democrat	Other	2040	Male	28
Democrat	Other	2028	Male	51
Democrat	Other	2024	Female	18
Democrat	Independent	2020	Female	17
Democrat	Other	2032	Male	17

Other	Republican	2024	Female	18
Democrat	Republican	2020	Female	42
Democrat	Democrat	2012	Female	35
Independent	Other	2016	Female	28
Democrat	Democrat	2028	Male	59
Democrat	Democrat	2032	Female	18
Democrat	Independent	2012	Male	40
Democrat	Democrat	2020	Female	22
Republican	Other	2024	Male	58
Independent	Republican	2028	Female	25
	Independent	.	Female	43
Republican	Republican	2016	Female	18
Other	Independent	2020	Male	32
Democrat	Independent	2024	Male	48
Democrat	Democrat	2028	Male	18
Democrat	Independent	2020	Female	38
Democrat	Democrat	2016	Male	31
Democrat	Democrat	2020	Male	38
Democrat	Democrat	2016	Male	45
Independent	Other	2012	Female	18
Democrat	Democrat	2016	Male	44
Democrat	Democrat	2020	Female	22
Independent	Other	2072	Female	41
Republican	Democrat	.	Male	20
Democrat	Republican	.	Male	34
Independent	Other	2020	Female	35
Republican	Other	2012	Male	56
Democrat	Democrat	2012	Female	26
Democrat	Other	2020	Male	55
Democrat		.	Male	18
Republican	Independent	2016	Male	27
Democrat	Democrat	2020	Female	32
Other	Other	.	Male	66
Democrat	Democrat	2020	Female	56
Democrat	Democrat	2012	Male	37
Democrat	Republican	2016	Female	18
Democrat	Democrat	2016	Male	38
Democrat	Republican	2020	Female	20
Democrat	Other	2012	Male	18
Democrat	Republican	2020	Female	51
Democrat	Other	2016	Male	35
Republican				

	Democrat	2012	Female	20
Independent	Democrat	2032	Male	28
Democrat		2016	Male	32
Democrat	Other	2012	Male	28
Democrat	Republican	2024	Female	18
Republican	Independent	2020	Female	36
Other	Other	.	Male	21
Independent	Republican	2016	Female	53
Democrat	Democrat	2016	Female	18
Republican	Republican	2028	Female	34
Democrat	Democrat	2020	Male	36
Republican	Republican	2024	Male	16
Democrat	Independent	2032	Male	30
Democrat	Democrat	2020	Female	19
Independent	Democrat	2052	Male	49
Democrat	Democrat	2012	Female	20
Other	Other	2020	Female	34
Republican	Republican	2020	Female	22
Republican	Independent	2016	Male	22
Democrat	Democrat	2016	Male	70
Democrat	Democrat	2016	Male	70
Democrat	Democrat	2016	Male	20
Republican	Republican	.	Male	49
Democrat	Democrat	2012	Female	20
Democrat	Democrat	2016	Male	17
Democrat	Democrat	2020	Male	40
Other	Republican	.	Male	22
Democrat	Democrat	2012	Female	30
Democrat	Other	2044	Male	38
Independent	Other	2072	Male	17
Republican	Democrat	2016	Male	57
Democrat	Other	2016	Female	21
Democrat	Democrat	2020	Male	30
Democrat	Other	2016	Male	21
Democrat	Democrat	2032	Female	27
Democrat	Republican	.	Male	21
Democrat	Republican	2020	Female	21
Democrat	Democrat	2020	Female	20
Republican	Republican	2040	Male	20
Republican	Democrat	2016	Female	21
Republican	Republican	2012	Male	18
Other				

	Democrat	.	Female	24
Democrat	Independent	2016	Female	19
Democrat	Independent	2020	Female	22
Democrat	Democrat	2016	Female	42
Democrat	Republican	2016	Female	18
Democrat	Democrat	2020	Male	15
Democrat	Democrat	2016	Female	19
Democrat	Other	2016	Female	20
Democrat	Democrat	2024	Female	35
Democrat	Democrat	2020	Female	19
Democrat	Other	2028	Female	21
Democrat	Independent	2012	Female	20
Republican	Other	2040	Female	32
Republican	Democrat	2012	Female	20
Democrat	Independent	2020	Female	20
Other	Other	.	Male	20
Democrat	Republican	2020	Female	19
Democrat	Republican	.	Male	18
Democrat	Democrat	2016	Female	28
Democrat	Democrat	2024	Female	19
Democrat	Democrat	2020	Male	24
Democrat	Democrat	2020	Male	24
Republican	Republican	2020	Female	37
Republican	Republican	2036	Female	49
Democrat	Democrat	2024	Female	16
Democrat	Republican	.	Male	28
Democrat	Republican	2056	Male	24
Republican	Independent	2020	Male	57
Democrat	Republican	2072	Male	22
Democrat	Republican	2024	Female	23
Independent	Independent	2016	Female	30
Democrat	Democrat	2020	Female	28
	Other	2028	Female	56
Democrat	Democrat	2016	Female	20
Democrat	Other	2020	Female	19
Other	Other	.	Male	23
Democrat	Republican	2024	Female	20
Democrat	Democrat	2024	Female	21
Republican	Democrat	2012	Female	40
Democrat	Democrat	2012	Male	29
Republican	Other	2016	Male	33
Democrat				

	Independent	2016	Male	36
Independent	Republican	2020	Female	60
Republican	Other	2016	Female	22
Democrat	Democrat	2024	Female	21
Republican	Democrat	2036	Female	40
Independent	Independent	2012	Male	25
Democrat	Independent	2024	Male	45
Democrat	Democrat	2016	Male	20
Democrat	Democrat	2020	Female	19
Democrat	Democrat	2024	Male	22
Democrat	Democrat	2012	Male	42
Democrat	Democrat	2020		20
Democrat	Democrat	2016	Female	33
Democrat	Republican	2020	Female	20
Democrat	Independent	2016	Male	23
Democrat	Democrat	2044	Male	30
Republican	Democrat	2012	Male	17
Democrat	Independent	2020	Female	34
Democrat	Democrat	2024	Male	18
Republican	Democrat	2016	Female	20
Democrat	Democrat	2028	Male	55
Republican	Republican	2024	Male	17
Republican	Independent	2012	Male	33
Other	Republican	.	Female	22
Independent	Republican	2016	Female	23
Democrat	Democrat	2016	Male	21
Independent	Independent	2024	Male	25
Republican	Republican	2012	Male	50
Independent	Democrat	2052	Male	14
Republican	Republican	2016	Female	17
Republican	Republican	2016	Female	22
Independent	Democrat	2048	Female	43
Democrat	Independent	2020	Male	30
Democrat	Democrat	2016	Female	20
Democrat	Democrat	2052	Male	22
Democrat	Democrat	2024	Female	30
Republican	Republican	2020	Female	18
Republican	Republican	2020	Female	19
Democrat	Democrat	2012	Female	22
Republican	Independent	2024	Male	20
Democrat	Democrat	2020	Male	20
Republican				

	Other	2016	Male	31
Democrat	Republican	2016	Female	23
Democrat	Independent	2020	Female	22
Democrat	Democrat	2020	Male	17
Democrat	Democrat	2016	Female	24
Democrat	Republican	2016	Female	24
Republican	Other	2012	Male	21
Democrat	Democrat	2020	Female	18
Democrat		2012	Female	34
Other	Other	.	Female	36
Republican	Independent	2012	Female	19
Democrat	Democrat	2020	Male	19
Democrat	Republican	.	Male	21
Republican	Democrat	.	Female	21
Independent	Independent	2020	Female	51
Democrat	Other	2020	Male	30
Democrat	Democrat	2020	Female	21
Democrat	Democrat	2016	Female	30
Republican	Independent	2012	Male	61
Republican	Other	2012	Male	49
Democrat	Independent	2016	Female	37
Independent	Independent	2020	Female	60
Republican	Democrat	2020	Female	49
Democrat	Republican	2016	Male	57
Independent	Other	2020	Male	24
Republican	Other	2044	Female	16
Democrat	Independent	2020	Female	26
Democrat	Democrat	2016	Female	51
Democrat	Other	.	Male	25
Democrat	Independent	2020	Male	36
Democrat	Democrat	2020	Female	37
Democrat	Democrat	2016	Female	47
Democrat	Democrat	2016	Male	56
Republican	Independent	2020	Male	70
Independent	Democrat	2028	Female	32
Republican	Republican	2016	Female	20
Democrat	Independent	2016	Male	24
Republican	Republican	2012	Male	52
Democrat	Republican	2032	Female	22
Independent	Other	2012	Female	36
Democrat	Democrat	2020	Male	20
Independent				

		2016	Male	49
Democrat	Democrat	.	Female	34
Democrat	Democrat	2028	Female	50
Republican	Republican	2012	Female	29
Democrat	Other	2072	Male	35
Democrat	Democrat	2016	Male	22
Other	Other	2012	Male	26
Democrat	Democrat	2024	Male	27
Democrat	Democrat	2020	Male	15
Democrat	Independent	2024	Male	24
Republican	Other	2012	Male	19
Democrat	Republican	.	Male	23
Independent	Independent	2012	Female	50
Democrat	Other	2024	Female	35
Democrat	Other	2052	Male	19
Democrat	Republican	2012	Male	5
Democrat	Republican	2020	Female	41
Democrat	Other	2020	Male	36
Republican	Democrat	2012	Male	17
Democrat	Democrat	2020	Female	39
Democrat	Other	2016	Male	56
Democrat	Other	2020	Female	46
Democrat	Democrat	2016	Male	73
Republican	Independent	2012	Male	21
Republican	Republican	2012	Female	45
Democrat	Democrat	2020	Female	29
Democrat	Other	.	Male	24
Democrat	Democrat	2016	Female	22
Democrat	Republican	.	Male	17
Democrat	Independent	2016	Male	18
Democrat	Democrat	2020	Female	25
Republican	Republican	2012	Male	20
Democrat	Independent	2032	Female	31
Democrat	Democrat	2012	Female	20
Democrat	Democrat	2020	Female	21
Democrat	Democrat	2012	Female	.
Democrat	Democrat	2020	Male	42
Democrat	Democrat	2020	Female	29
Democrat	Democrat	2060	Female	25
Republican	Republican	2052	Male	20
Republican	Independent	2012	Male	33
Democrat				

	Independent	2016	Male	68
Democrat	Independent	2032	Male	25

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candidate_party	resp_party	year	gender	age
Democrat	Independent	2016	Female	34
Democrat	Independent	2016	Female	27
Democrat	Republican	2020	Female	24
Republican	Republican	2012	Female	20
Democrat	Democrat	2016	Female	52
Republican	Republican	2020	Female	49
Independent	Independent	2012	Female	29
Democrat	Democrat	2040	Female	40
Republican	Republican	2032	Female	18
Republican	Independent	2020	Female	19
Democrat	Democrat	2016	Female	51
Democrat	Democrat	2016	Female	42
Independent	Independent	2016	Female	59
Democrat	Independent	2020	Female	20
Democrat	Independent	2012	Female	26
Democrat	Other	2024	Female	18
Democrat	Independent	2020	Female	17
Other	Republican	2024	Female	18
Democrat	Republican	2020	Female	42
Democrat	Democrat	2012	Female	35
Independent	Other	2016	Female	28
Democrat	Democrat	2032	Female	18
Democrat	Democrat	2020	Female	22
Independent	Republican	2028	Female	25
	Independent	.	Female	43
Republican	Republican	2016	Female	18
Democrat	Independent	2020	Female	38
Independent	Other	2012	Female	18
Democrat	Democrat	2020	Female	22
Independent	Other	2072	Female	41
Independent	Other	2020	Female	35
Democrat	Democrat	2012	Female	26
Democrat	Democrat	2020	Female	32
Democrat	Democrat	2020	Female	56
Democrat	Republican	2016	Female	18
Democrat	Republican	2020	Female	20
Democrat	Republican	2020	Female	51
Republican	Democrat	2012	Female	20

Democrat	Republican	2024	Female	18
Republican	Independent	2020	Female	36
Independent	Republican	2016	Female	53
Democrat	Democrat	2016	Female	18
Republican	Republican	2028	Female	34
Democrat	Democrat	2020	Female	19
Democrat	Democrat	2012	Female	20
Other	Other	2020	Female	34
Republican	Republican	2020	Female	22
Democrat	Democrat	2012	Female	20
Democrat	Democrat	2012	Female	30
Democrat	Other	2016	Female	21
Democrat	Democrat	2032	Female	27
Democrat	Republican	2020	Female	21
Democrat	Democrat	2020	Female	20
Republican	Democrat	2016	Female	21
Other	Democrat	.	Female	24
Democrat	Independent	2016	Female	19
Democrat	Independent	2020	Female	22
Democrat	Democrat	2016	Female	42
Democrat	Republican	2016	Female	18
Democrat	Democrat	2016	Female	19
Democrat	Other	2016	Female	20
Democrat	Democrat	2024	Female	35
Democrat	Democrat	2020	Female	19
Democrat	Other	2028	Female	21
Democrat	Independent	2012	Female	20
Republican	Other	2040	Female	32
Republican	Democrat	2012	Female	20
Democrat	Independent	2020	Female	20
Democrat	Republican	2020	Female	19
Democrat	Democrat	2016	Female	28
Democrat	Democrat	2024	Female	19
Republican	Republican	2020	Female	37
Republican	Republican	2036	Female	49
Democrat	Democrat	2024	Female	16
Democrat	Republican	2024	Female	23
Independent	Independent	2016	Female	30
Democrat	Democrat	2020	Female	28
	Other	2028	Female	56
Democrat	Democrat	2016	Female	20
Democrat				

	Other	2020	Female	19
Democrat	Republican	2024	Female	20
Democrat	Democrat	2024	Female	21
Republican	Democrat	2012	Female	40
Independent	Republican	2020	Female	60
Republican	Other	2016	Female	22
Democrat	Democrat	2024	Female	21
Republican	Democrat	2036	Female	40
Democrat	Democrat	2020	Female	19
Democrat	Democrat	2016	Female	33
Democrat	Republican	2020	Female	20
Democrat	Independent	2020	Female	34
Republican	Democrat	2016	Female	20
Other	Republican	.	Female	22
Independent	Republican	2016	Female	23
Republican	Republican	2016	Female	17
Republican	Republican	2016	Female	22
Independent	Democrat	2048	Female	43
Democrat	Democrat	2016	Female	20
Democrat	Democrat	2024	Female	30
Republican	Republican	2020	Female	18
Republican	Republican	2020	Female	19
Democrat	Democrat	2012	Female	22
Democrat	Republican	2016	Female	23
Democrat	Independent	2020	Female	22
Democrat	Democrat	2016	Female	24
Democrat	Republican	2016	Female	24
Democrat	Democrat	2020	Female	18
Democrat		2012	Female	34
Other	Other	.	Female	36
Republican	Independent	2012	Female	19
Republican	Democrat	.	Female	21
Independent	Independent	2020	Female	51
Democrat	Democrat	2020	Female	21
Democrat	Democrat	2016	Female	30
Democrat	Independent	2016	Female	37
Independent	Independent	2020	Female	60
Republican	Democrat	2020	Female	49
Republican	Other	2044	Female	16
Democrat	Independent	2020	Female	26
Democrat	Democrat	2016	Female	51
Democrat				

	Democrat	2020	Female	37
Democrat	Democrat	2016	Female	47
Independent	Democrat	2028	Female	32
Republican	Republican	2016	Female	20
Democrat	Republican	2032	Female	22
Independent	Other	2012	Female	36
Democrat	Democrat	.	Female	34
Democrat	Democrat	2028	Female	50
Republican	Republican	2012	Female	29
Independent	Independent	2012	Female	50
Democrat	Other	2024	Female	35
Democrat	Republican	2020	Female	41
Democrat	Democrat	2020	Female	39
Democrat	Other	2020	Female	46
Republican	Republican	2012	Female	45
Democrat	Democrat	2020	Female	29
Democrat	Democrat	2016	Female	22
Democrat	Democrat	2020	Female	25
Democrat	Independent	2032	Female	31
Democrat	Democrat	2012	Female	20
Democrat	Democrat	2020	Female	21
Democrat	Democrat	2012	Female	.
Democrat	Democrat	2020	Female	29
Democrat	Democrat	2060	Female	25

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candidate_party	resp_party	year	gender	age
Republican	Republican	2024	Male	31
Republican	Republican	2020	Male	53
Democrat	Republican	2028	Male	23
Republican	Republican	2040	Male	38
Democrat	Republican	2020	Male	26
Democrat	Republican	.	Male	34
Republican	Republican	2024	Male	16
Republican	Republican	.	Male	49
Other	Republican	.	Male	22
Democrat	Republican	.	Male	21
Republican	Republican	2040	Male	20
Republican	Republican	2012	Male	18
Democrat	Republican	.	Male	18
Democrat	Republican	.	Male	28
Democrat	Republican	2056	Male	24
Democrat	Republican	2072	Male	22
Republican	Republican	2024	Male	17
Republican	Republican	2012	Male	50
Democrat	Republican	.	Male	21
Democrat	Republican	2016	Male	57
Republican	Republican	2012	Male	52
Democrat	Republican	.	Male	23
Democrat	Republican	2012	Male	5
Democrat	Republican	.	Male	17
Republican	Republican	2012	Male	20
Republican	Republican	2052	Male	20

The SAS System

candidate_party	resp_party	year	gender	age
Democrat	Democrat	2040	Female	40
Republican	Republican	2040	Male	38
Independent	Democrat	2052	Male	49
Republican	Republican	2040	Male	20
Republican	Republican	2036	Female	49
Democrat	Republican	2056	Male	24
Democrat	Republican	2072	Male	22
Republican	Democrat	2036	Female	40
Democrat	Democrat	2044	Male	30
Independent	Democrat	2052	Male	14
Independent	Democrat	2048	Female	43
Democrat	Democrat	2052	Male	22
Democrat	Democrat	2060	Female	25
Republican	Republican	2052	Male	20

The SAS System

candidate_party	resp_party	year	gender	age
	Independent	.	Female	43
Republican	Democrat	.	Male	20
Democrat	Republican	.	Male	34
Democrat		.	Male	18
Other	Other	.	Male	66
Other	Other	.	Male	21
Republican	Republican	.	Male	49
Other	Republican	.	Male	22
Democrat	Republican	.	Male	21
Other	Democrat	.	Female	24
Other	Other	.	Male	20
Democrat	Republican	.	Male	18
Democrat	Republican	.	Male	28
Other	Other	.	Male	23
Other	Republican	.	Female	22
Other	Other	.	Female	36
Democrat	Republican	.	Male	21
Republican	Democrat	.	Female	21
Democrat	Other	.	Male	25
Democrat	Democrat	.	Female	34
Democrat	Republican	.	Male	23
Democrat	Other	.	Male	24
Democrat	Republican	.	Male	17

The SAS System

Obs	Employee_ID	First_Name	Last_Name	Gender	Salary	Job_Title	Country	Birth_Date	Hire_Date
1	121036	Teresa	Mesley	F	25965	Sales Rep. I	US	11887	17440
2	121038	David	Anstey	M	25285	Sales Rep. I	US	11731	18475
3	121044	Ray	Abbott	M	25660	Sales Rep. I	US	-386	7152
4	121046	Roger	Mandzak	M	25845	Sales Rep. I	US	10477	18444
5	121047	Karen	Grzebien	F	25820	Sales Rep. I	US	8730	18506
6	121057	Tachaun	Voron	M	25125	Sales Rep. I	US	1455	9101
7	121064	Asishana	Polky	M	25110	Sales Rep. I	US	2949	13027
8	121079	Azmi	Mees	M	25770	Sales Rep. I	US	6728	15280
9	121084	Tulsidas	Ould	M	22710	Sales Rep. I	US	3150	12784
10	121092	Gynell	Pritt	F	25680	Sales Rep. I	US	6641	17014
11	121101	Burnetta	Buckner	F	25390	Sales Rep. I	US	11197	18567
12	121106	James	Hilburger	M	25880	Sales Rep. I	US	4781	14641
13	121108	Libby	Levi	F	25930	Sales Rep. I	US	11873	18567

The SAS System

Employee_ID	First_Name	Last_Name	Gender	Salary	Job_Title	Country	Birth_Date	Hire_Date
121036	Teresa	Mesley	F	25965	Sales Rep. I	US	11887	2007
121038	David	Anstey	M	25285	Sales Rep. I	US	11731	2010
121044	Ray	Abbott	M	25660	Sales Rep. I	US	-386	1979
121046	Roger	Mandzak	M	25845	Sales Rep. I	US	10477	2010
121047	Karen	Grzebien	F	25820	Sales Rep. I	US	8730	2010
121057	Tachaun	Voron	M	25125	Sales Rep. I	US	1455	1984
121064	Asishana	Polky	M	25110	Sales Rep. I	US	2949	1995
121079	Azmi	Mees	M	25770	Sales Rep. I	US	6728	2001
121084	Tulsidas	Ould	M	22710	Sales Rep. I	US	3150	1995
121092	Gynell	Pritt	F	25680	Sales Rep. I	US	6641	2006
121101	Burnetta	Buckner	F	25390	Sales Rep. I	US	11197	2010
121106	James	Hilburger	M	25880	Sales Rep. I	US	4781	2000
121108	Libby	Levi	F	25930	Sales Rep. I	US	11873	2010

The SAS System

Employee_Gender=F

Employee_ID	Salary	Marital_Status
120661	85495	M
120802	65125	S
120269	52540	M
120265	51950	M
Employee_Gender	255110	

Employee_Gender=M

Employee_ID	Salary	Marital_Status
120800	80210	S
120670	65420	S
120666	64555	S
121148	52930	M
120813	50865	S
Employee_Gender	313980	
	569090	

The SAS System

The UNIVARIATE Procedure
Variable: Product_ID (Product ID)

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.20200E+10	4	2.2020E+11	6
2.20200E+11	1	2.2020E+11	7
2.20200E+11	2	2.2020E+11	9
2.20200E+11	3	2.2020E+11	10
2.20200E+11	5	2.2020E+12	8