Figure 1: data in COLUMN Format

```
Alfred        14 M      69       113
Alice         13 F      57        84
Barbara       13 F      65        98
Carol         14 F      63       103
Henry         14 M      64       103
James         12 M      57        83
Jane          12 F      60        85
Janet         15 F      63       113
Jeffrey       13 M      63        84
John          12 M      59       100
Joyce         11 F      51        51
Judy          14 F      64        90
Louise        12 F      56        77
Mary          15 F      67       112
Philip        16 M      72       150
Robert        12 M      65       128
Ronald        15 M      67       133
Thomas        11 M      58        85
William       15 M      67       112

000000000111111111222222222
12345678901234567890123456789
```

Column Index (not part of the data)

Figure 2: Data in COLUMN Format /w Missing Data

Name	Age	Sex	Height	Weight
Alfred	14	M	69	113
Alice		F	57	84
Barbara	13	F	65	98
Carol	14	F	63	103
Henry	14	M	64	103
James	12	M	57	83
Jane	12	F		85
Janet	15	F	63	113
Jeffrey	13	M	63	
John	12	M	59	100
Joyce	11	F	51	51
Judy	14	F	64	90
Louise	12	F	56	77
Mary	15	F	67	112
Philip	16	M	72	150
Robert	12	M	65	128
Ronald	15	M	67	133
Thomas	11	M	58	85
William	15	M	67	112

Figure 3: Data in LIST Format /w SPACE Delimiter

```
Name Age Sex Height Weight
Alfred 14 M 69 112.5
Alice 13 F 56.5 84
Barbara 13 F 65.3 98
Carol 14 F 62.8 102.5
Henry 14 M 63.5 102.5
James 12 M 57.3 83
Jane 12 F 59.8 84.5
Janet 15 F 62.5 112.5
Jeffrey 13 M 62.5 84
John 12 M 59 99.5
Joyce 11 F 51.3 50.5
Judy 14 F 64.3 90
Louise 12 F 56.3 77
Mary 15 F 66.5 112
Philip 16 M 72 150
Robert 12 M 64.8 128
Ronald 15 M 67 133
Thomas 11 M 57.5 85
William 15 M 66.5 112
```

← Header Row

Figure 4: Data in LIST Format /w TAB Delimiter

Name	Age	Sex	Height	Weight
Alfred	14	M	69	112.5
Alice	13	F	56.5	84
Barbara	13	F	65.3	98
Carol	14	F	62.8	102.5
Henry	14	M	63.5	102.5
James	12	M	57.3	83
Jane	12	F	59.8	84.5
Janet	15	F	62.5	112.5
Jeffrey	13	M	62.5	84
John	12	M	59	99.5
Joyce	11	F	51.3	50.5
Judy	14	F	64.3	90
Louise	12	F	56.3	77
Mary	15	F	66.5	112
Philip	16	M	72	150
Robert	12	M	64.8	128
Ronald	15	M	67	133
Thomas	11	M	57.5	85
William	15	M	66.5	112

Figure 5: Data in LIST Format /w TAB Delimiter & Date Variables

```
Name       Age  Sex  Height   Weight   Date
Alfred     14   M    69  112.5      01Mar2015
Alice      13   F    56.5     84   15Jan2016
Barbara    13   F    65.3     98   21Jan2016
Carol      14   F    62.8     102.5    11Mar2017
Henry      14   M    63.5     102.5    05Jan2017
James      12   M    57.3     83   21Mar2015
Jane       12   F    59.8     84.5     15Mar2014
Janet      15   F    62.5     112.5    24Sep2013
Jeffrey    13   M    62.5     84   19Sep2012
John       12   M    59  99.5       16Feb2013
Joyce      11   F    51.3     50.5     07Feb2017
Judy       14   F    64.3     90   02Oct2014
Louise     12   F    56.3     77   30Oct2015
Mary       15   F    66.5     112  29Dec2016
Philip     16   M    72  150  19Dec2017
Robert     12   M    64.8     128  04May2014
Ronald     15   M    67  133  08Jul2013
Thomas     11   M    57.5     85   21Apr2014
William    15   M    66.5     112  30Aug2015
```

Figure 6: Data in LIST Format /w COMMA Delimiter (CSV)

```
Name,Age,Sex,Height,Weight
Alfred,14,M,69,112.5
Alice,13,F,56.5,84
Barbara,13,F,65.3,98
Carol,14,F,62.8,102.5
Henry,14,M,63.5,102.5
James,12,M,57.3,83
Jane,12,F,59.8,84.5
Janet,15,F,62.5,112.5
Jeffrey,13,M,62.5,84
John,12,M,59,99.5
Joyce,11,F,51.3,50.5
Judy,14,F,64.3,90
Louise,12,F,56.3,77
Mary,15,F,66.5,112
Philip,16,M,72,150
Robert,12,M,64.8,128
Ronald,15,M,67,133
Thomas,11,M,57.5,85
William,15,M,66.5,112
```

Figure 7: Data in EXCEL Format

	A	B	C	D	E	F
	A1			fx	Name	
1	Name	Age	Sex	Height	Weight	
2	Alfred	14	M	69	112.5	
3	Alice	13	F	56.5	84	
4	Barbara	13	F	65.3	98	
5	Carol	14	F	62.8	102.5	
6	Henry	14	M	63.5	102.5	
7	James	12	M	57.3	83	
8	Jane	12	F	59.8	84.5	
9	Janet	15	F	62.5	112.5	
10	Jeffrey	13	M	62.5	84	
11	John	12	M	59	99.5	
12	Joyce	11	F	51.3	50.5	
13	Judy	14	F	64.3	90	
14	Louise	12	F	56.3	77	
15	Mary	15	F	66.5	112	
16	Philip	16	M	72	150	
17	Robert	12	M	64.8	128	
18	Ronald	15	M	67	133	
19	Thomas	11	M	57.5	85	
20	William	15	M	66.5	112	
21						
22						
23						

class