1. Consider a dataset comb1 in the datasets folder. Reshape the dataset to the following structure:

```
> glimpse(dt_comb1)
Observations: 76
Variables: 3
$ District <fctr> Ahmednagar, Aurangabad, Buldhana, Dhule, Goa, Kolhapur, Mumbai, Nadurbar, Nagpur, Nan...
$ ItemType <chr> "Highlighter", "Highlighter", "Highlighter", "Highlighter", "Highlighter", "Highlighte...
$ qty     <int> 225, 162, 30, 193, 81, 108, 119, 162, 107, 111, 152, 154, 174, 326, 121, 72, 75, 164, ...
```

Data should be like this:

	District	ItemType	qty
1	Ahmednagar	Highlighter	225
2	Aurangabad	Highlighter	162
3	Buldhana	Highlighter	30
4	Dhule	Highlighter	193
5	Goa	Highlighter	81
6	Kolhapur	Highlighter	108
7	Mumbai	Highlighter	119
8	Nadurbar	Highlighter	162
9	Nagpur	Highlighter	107
10	Nanded	Highlighter	111
11	Nasik	Highlighter	152
12	Pune	Highlighter	154
13	Raigad	Highlighter	174
14	Ratnagiri	Highlighter	326
15	Sangli	Highlighter	121
16	Satara	Highlighter	72
17	Sindhudurga	Highlighter	75
18	Solapur	Highlighter	164
19	Thane	Highlighter	224
20	Ahmednagar	Marker	51
21	Aurangabad	Marker	159
22	Buldhana	Marker	32
23	Dhule	Marker	390
24	Goa	Marker	243
25	Kolhapur	Marker	118
26	Mumbai	Marker	160
27	Nadurbar	Marker	281
28	Nagpur	Marker	121
29	Nanded	Marker	240
30	Nasik	Marker	239
31	Pune	Marker	309
32	Raigad	Marker	436
33	Ratnagiri	Marker	398
34	Sangli	Marker	110
35	Satara	Marker	156
36	Sindhudurga	Marker	217
37	Solapur	Marker	160
38	Thane	Marker	246
39	Ahmednagar	Pen	674
40	Aurangabad	Pen	755
41	Buldhana	Pen	616
42	Dhule	Pen	553
43	Goa	Pen	518
44	Kolhapur	Pen	352
45	Mumbai	Pen	391
46	Nadurbar	Pen	386

```
47       Nagpur      Pen   280
48       Nanded      Pen   761
49        Nasik      Pen   619
50         Pune      Pen   768
51       Raigad      Pen   545
52    Ratnagiri      Pen  1504
53       Sangli      Pen   221
54       Satara      Pen   373
55 Sindhudurga      Pen  1253
56      Solapur      Pen   391
57        Thane      Pen   733
58   Ahmednagar   Refill    69
59   Aurangabad   Refill    50
60     Buldhana   Refill    38
61        Dhule   Refill    40
62          Goa   Refill    NA
63     Kolhapur   Refill    NA
64       Mumbai   Refill    29
65     Nadurbar   Refill   156
66       Nagpur   Refill    33
67       Nanded   Refill    28
68        Nasik   Refill    65
69         Pune   Refill   122
70       Raigad   Refill    40
71    Ratnagiri   Refill    74
72       Sangli   Refill    47
73       Satara   Refill    NA
74 Sindhudurga   Refill    77
75      Solapur   Refill    15
76        Thane   Refill    58
```

2. Consider the dataset comb2 in the datasets folder. PatientID in the data is to be broken up into the format projectID-SiteID/PatientNumber. Create the dataset with the following structure:

```
> glimpse(dt_comb2)
Observations: 10
Variables: 5
$ projectID     <int> 123, 123, 134, 190, 190, 234, 231, 231, 134, 234
$ SiteID        <int> 984, 345, 93, 32, 309, 92, 902, 309, 92, 984
$ PatientNumber <int> 45, 34, 43, 34, 32, 23, 21, 21, 34, 43
$ Lab_test      <chr> "A", "A", "A", "B", "B", "B", "B", "A", "B", "A"
$ Result        <chr> "Present", "Absent", "Present", "Present", "Absent",...
```

Data View Should be:

	projectID	SiteID	PatientNumber	Lab_test	Result
1	123	984	45	A	Present
2	123	345	34	A	Absent
3	134	093	43	A	Present
4	190	032	34	B	Present
5	190	309	32	B	Absent
6	234	092	23	B	Present
7	231	902	21	B	Absent
8	231	309	21	A	Absent
9	134	092	34	B	Present
10	234	984	43	A	Present