```
"C:\Program Files\python310\python.exe" C:/Users/prati/PycharmProjects/pythonProject9/practical1combine.py
Summary Statistics for mtcars:
              mpg        cyl         disp  ...         am       gear     carb
count  32.000000  32.000000   32.000000  ...  32.000000  32.000000  32.0000
mean   20.090625   6.187500  230.721875  ...   0.406250   3.687500   2.8125
std     6.026948   1.785922  123.938694  ...   0.498991   0.737804   1.6152
min    10.400000   4.000000   71.100000  ...   0.000000   3.000000   1.0000
25%    15.425000   4.000000  120.825000  ...   0.000000   3.000000   2.0000
50%    19.200000   6.000000  196.300000  ...   0.000000   4.000000   2.0000
75%    22.800000   8.000000  326.000000  ...   1.000000   4.000000   4.0000
max    33.900000   8.000000  472.000000  ...   1.000000   5.000000   8.0000

[8 rows x 11 columns]

General Information for mtcars:
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 32 entries, 0 to 31
Data columns (total 12 columns):
 #   Column  Non-Null Count  Dtype
---  ------  --------------  -----
 0   model   32 non-null     object
 1   mpg     32 non-null     float64
 2   cyl     32 non-null     int64
 3   disp    32 non-null     float64
 4   hp      32 non-null     int64
 5   drat    32 non-null     float64
 6   wt      32 non-null     float64
 7   qsec    32 non-null     float64
 8   vs      32 non-null     int64
 9   am      32 non-null     int64
```

```
31  10  gear    32 non-null     int64
32  11  carb    32 non-null     int64
33 dtypes: float64(5), int64(6), object(1)
34 memory usage: 3.1+ KB
35 None
36
37 Quartile Information for mtcars:
38          mpg  cyl     disp     hp   drat  ...
   qsec   vs   am  gear  carb
39 0.25  15.425  4.0  120.825   96.5  3.080  ...  16.
   8925  0.0  0.0   3.0   2.0
40 0.50  19.200  6.0  196.300  123.0  3.695  ...  17.
   7100  0.0  0.0   4.0   2.0
41 0.75  22.800  8.0  326.000  180.0  3.920  ...  18.
   9000  1.0  1.0   4.0   4.0
42
43 [3 rows x 11 columns]
44 Summary Statistics for cars:
45              mpg        cyl        disp  ...
   am       gear     carb
46 count  32.000000  32.000000   32.000000  ...  32.
   000000  32.000000  32.0000
47 mean   20.090625   6.187500  230.721875  ...   0.
   406250   3.687500   2.8125
48 std     6.026948   1.785922  123.938694  ...   0.
   498991   0.737804   1.6152
49 min    10.400000   4.000000   71.100000  ...   0.
   000000   3.000000   1.0000
50 25%    15.425000   4.000000  120.825000  ...   0.
   000000   3.000000   2.0000
51 50%    19.200000   6.000000  196.300000  ...   0.
   000000   4.000000   2.0000
52 75%    22.800000   8.000000  326.000000  ...   1.
   000000   4.000000   4.0000
53 max    33.900000   8.000000  472.000000  ...   1.
   000000   5.000000   8.0000
54
55 [8 rows x 11 columns]
56
57 General Information for cars:
58 <class 'pandas.core.frame.DataFrame'>
```

```
59 RangeIndex: 32 entries, 0 to 31
60 Data columns (total 12 columns):
61  #   Column  Non-Null Count  Dtype
62 ---  ------  --------------  -----
63  0   model   32 non-null     object
64  1   mpg     32 non-null     float64
65  2   cyl     32 non-null     int64
66  3   disp    32 non-null     float64
67  4   hp      32 non-null     int64
68  5   drat    32 non-null     float64
69  6   wt      32 non-null     float64
70  7   qsec    32 non-null     float64
71  8   vs      32 non-null     int64
72  9   am      32 non-null     int64
73  10  gear    32 non-null     int64
74  11  carb    32 non-null     int64
75 dtypes: float64(5), int64(6), object(1)
76 memory usage: 3.1+ KB
77 None
78
79 Quartile Information for cars:
80          mpg  cyl     disp     hp   drat  ...
   qsec   vs   am  gear  carb
81 0.25  15.425  4.0  120.825   96.5  3.080  ...  16.
   8925  0.0  0.0   3.0   2.0
82 0.50  19.200  6.0  196.300  123.0  3.695  ...  17.
   7100  0.0  0.0   4.0   2.0
83 0.75  22.800  8.0  326.000  180.0  3.920  ...  18.
   9000  1.0  1.0   4.0   4.0
84
85 [3 rows x 11 columns]
86 Original Iris dataset:
87    sepal_length  sepal_width  petal_length
   petal_width species
88 0           5.1          3.5           1.4          0
   .2  setosa
89 1           4.9          3.0           1.4          0
   .2  setosa
90 2           4.7          3.2           1.3          0
   .2  setosa
91 3           4.6          3.1           1.5          0
```

```
 91 .2  setosa
 92 4            5.0          3.6           1.4
    0.2  setosa
 93
 94 Subset of Iris Dataset:
 95 0       True
 96 1      False
 97 2      False
 98 3      False
 99 4      False
100         ...
101 145    False
102 146    False
103 147    False
104 148     True
105 149    False
106 Length: 150, dtype: bool
107
108 Aggregate result - Mean petal length for each
    species:
109              petal_length
110 species
111 setosa              1.464
112 versicolor          4.260
113 virginica           5.552
114
115 Process finished with exit code 0
116
```