5/12/22, 2:25 PM assessment 1

In [39]: import pandas as pd

In [40]: data=pd.read_csv("https://raw.githubusercontent.com/svkarthik86/Fundamentals-of-stat

In [41]: da

data

Out[41]:

	Month	Starting Balance	Repayment	Interest Paid	Principal Paid	New Balance	term	interest_rate	car_type
0	1	34689.96	687.23	202.93	484.30	34205.66	60	0.0702	Toyota Sienna
1	2	34205.66	687.23	200.10	487.13	33718.53	60	0.0702	Toyota Sienna
2	3	33718.53	687.23	197.25	489.98	33228.55	60	0.0702	Toyota Sienna
3	4	33228.55	687.23	194.38	492.85	32735.70	60	0.0702	Toyota Sienna
4	5	32735.70	687.23	191.50	495.73	32239.97	60	0.0702	Toyota Sienna
•••									
403	56	3951.11	796.01	9.54	786.47	3164.64	60	0.0290	VW Golf R
404	57	3164.64	796.01	7.64	788.37	2376.27	60	0.0290	VW Golf R
405	58	2376.27	796.01	5.74	790.27	1586.00	60	0.0290	VW Golf R
406	59	1586.00	796.01	3.83	792.18	793.82	60	0.0290	VW Golf R
407	60	793.82	796.01	1.91	794.10	-0.28	60	0.0290	VW Golf R

408 rows × 9 columns

In [42]:

data.describe()

Out[42]:

	Month	Starting Balance	Repayment	Interest Paid	Principal Paid	New Balance	term	in
count	408.000000	408.000000	408.000000	408.000000	408.000000	408.000000	408.000000	
mean	26.970588	17562.870343	712.134118	56.715123	655.418995	16907.451348	52.941176	
std	16.207776	11224.423084	247.447947	40.775353	245.361625	11168.974693	9.268926	
min	1.000000	395.410000	396.820000	1.280000	326.620000	-0.490000	36.000000	
25%	13.000000	8557.900000	486.740000	26.257500	476.972500	7832.080000	48.000000	
50%	26.000000	16262.230000	661.995000	50.640000	598.135000	15539.305000	60.000000	
75%	39.250000	25285.055000	796.010000	76.357500	760.790000	24535.925000	60.000000	

5/12/22, 2:25 PM assessment 1

```
Starting
                                                         Interest
                                                                    Principal
                     Month
                                                                              New Balance
                                          Repayment
                                                                                                term in
                                 Balance
                                                            Paid
                                                                        Paid
            max
                  60.000000 44409.600000
                                          1289.530000
                                                      202.930000 1286.430000
                                                                             43720.910000
                                                                                            60.000000
In [43]:
           data[["Month","Starting Balance","Repayment"]].mean()
                                   26.970588
          Month
Out[43]:
          Starting Balance
                                17562.870343
          Repayment
                                  712.134118
          dtype: float64
In [44]:
           data[["Month","Starting Balance","Repayment"]].median()
                                   26.000
          Month
Out[44]:
          Starting Balance
                                16262.230
          Repayment
                                  661.995
          dtype: float64
In [45]:
           data[["Month", "Starting Balance", "Repayment"]].mode()
                     Starting Balance
Out[45]:
              Month
                                      Repayment
           0
                   1
                              21600.0
                                           396.82
           1
                   2
                              44409.6
                                           632.47
           2
                   3
                                 NaN
                                           687.23
           3
                                           796.01
                   4
                                 NaN
           4
                   5
                                 NaN
                                            NaN
           5
                   6
                                 NaN
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           6
                   7
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                                 NaN
          19
                  20
                                            NaN
                                 NaN
          20
                  21
                                 NaN
                                            NaN
```

5/12/22, 2:25 PM assessment 1

	Month	Starting Balance	Repayment
21	22	NaN	NaN
22	23	NaN	NaN
23	24	NaN	NaN
24	25	NaN	NaN
25	26	NaN	NaN
26	27	NaN	NaN
27	28	NaN	NaN
28	29	NaN	NaN
29	30	NaN	NaN
30	31	NaN	NaN
31	32	NaN	NaN
32	33	NaN	NaN
33	34	NaN	NaN
34	35	NaN	NaN
35	36	NaN	NaN