

```
1 import pandas as pd
```


```
1 data=pd.read_excel("/content/Crowdfunding_data_1000_projects (5).xlsx")
```

1. Create a pandas data-frame with columns: (1) Project_ID; (2) School_city; (3) Goal; (4) num_donors. (2 points)

```
1 df=data.loc[:,["Project_ID","school_city","Goal","num_donors"]]
```

2. Show mean values of Goal and num_donors for each school_city using groupby() function. (2 points)

```
1 df1=df.iloc[:,[1,2,3]]
2 df1.groupby(["school_city"]).mean()
```



	Goal	num_donors
school_city		
Aberdeen	466.180	6.0
Addison	512.930	13.0
Afton	930.710	6.0
Aiken	382.160	0.0
Alachua	286.010	6.0
...
Woonsocket	520.455	7.0
Worcester	510.550	5.0
Wyandanch	508.840	5.0
Yonkers	548.930	5.0
Ypsilanti	926.590	10.0

528 rows × 2 columns

3. Present descriptive statistics for the data-frame. using describe() function. (2 points)

```
1 df.describe()
```

4. Create another data-frame from Crowdfunding_data_1000_projects.xlsx Preview the document with columns: (1) Project_ID ; (2) school_state, and merge with data-frame from step (1). (2 points)

```
1 df2=data.loc[:,["Project_ID","school_state"]]
```

```
1 merged=pd.merge(df,df2)
```

```
2 merged
```

5. Using the merged data-frame from step (4), select rows where school_state is MO and num_donors>1. (2 points)

```
1 final=merged[(merged["school_state"]=="MO") & (merged["num_donors"]>1)]  
2 final
```

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