

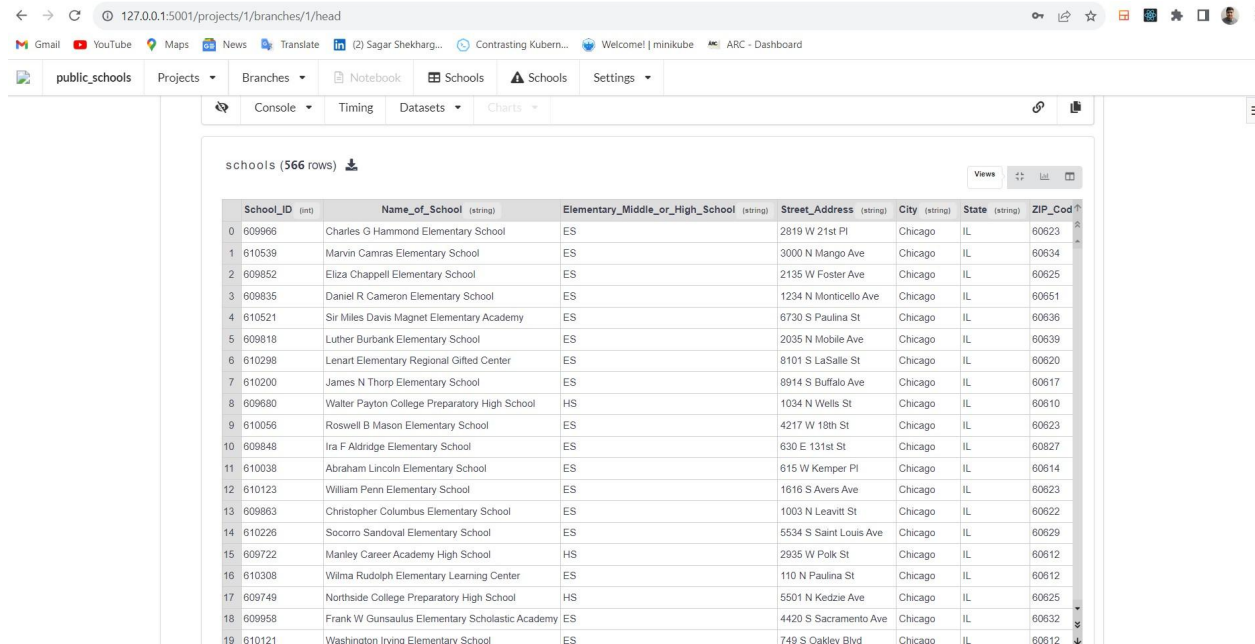
ASSIGNMENT No# 1

VIZIER ASSIGNMENT - Group 17

Group Members:

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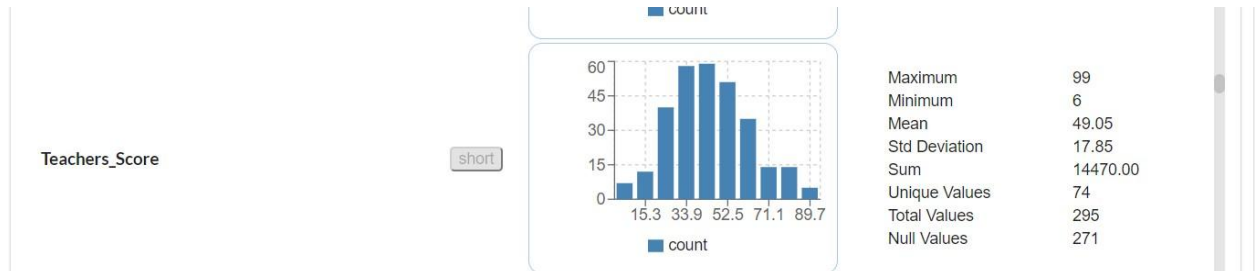
Task#1:



schools (566 rows)

School_ID	Name_of_School	Elementary_Middle_or_High_School	Street_Address	City	State	ZIP_Cod
0 609966	Charles G Hammond Elementary School	ES	2819 W 21st Pl	Chicago	IL	60623
1 610539	Marvin Camras Elementary School	ES	3000 N Mango Ave	Chicago	IL	60634
2 609852	Eliza Chappell Elementary School	ES	2135 W Foster Ave	Chicago	IL	60625
3 609835	Daniel R Cameron Elementary School	ES	1234 N Monticello Ave	Chicago	IL	60651
4 610521	Sir Miles Davis Magnet Elementary Academy	ES	6730 S Paulina St	Chicago	IL	60636
5 609818	Luther Burbank Elementary School	ES	2035 N Mobile Ave	Chicago	IL	60639
6 610298	Lenart Elementary Regional Gifted Center	ES	8101 S LaSalle St	Chicago	IL	60620
7 610200	James N Thorp Elementary School	ES	8914 S Buffalo Ave	Chicago	IL	60617
8 609680	Walter Payton College Preparatory High School	HS	1034 N Wells St	Chicago	IL	60610
9 610059	Roswell B Mason Elementary School	ES	4217 W 18th St	Chicago	IL	60623
10 609848	Ira F Aldridge Elementary School	ES	630 E 131st St	Chicago	IL	60627
11 610038	Abraham Lincoln Elementary School	ES	615 W Kemper Pl	Chicago	IL	60614
12 610123	William Penn Elementary School	ES	1616 S Avers Ave	Chicago	IL	60623
13 609863	Christopher Columbus Elementary School	ES	1003 N Leavitt St	Chicago	IL	60622
14 610226	Socorro Sandoval Elementary School	ES	5534 S Saint Louis Ave	Chicago	IL	60629
15 609722	Manley Career Academy High School	HS	2935 W Polk St	Chicago	IL	60612
16 610308	Wilma Rudolph Elementary Learning Center	ES	110 N Paulina St	Chicago	IL	60612
17 609749	Northside College Preparatory High School	HS	5501 N Kedzie Ave	Chicago	IL	60625
18 609958	Frank W Gunsaulus Elementary Scholastic Academy	ES	4420 S Sacramento Ave	Chicago	IL	60632
19 610121	Washington Irving Elementary School	ES	749 S Oakley Blvd	Chicago	IL	60612

Task#2



Task#3:

public_schools Projects Branches Notebook Schools Schools Settings

```
[1] LOAD DATASET schools AS csv FROM Chicago_Public_Schools_-_Progress_Report_Cards_2011-2012.csv @ url  
'https://raw.githubusercontent.com/IITDGroup/cs520/master/vizier/Chicago_Public_Schools_-_Progress_Report_Cards_2011-2012.csv'
```

schools (566 rows)

Cell Annotations

Comment
Could not cast 'NDA' to ShortType (in schools)

Parent_Environment_Icon
Weak
Strong
Average
Weak
NDA
Average
Average
NDA
NDA
NDA
Strong

Task#4

```
[2] SELECT Teachers_Score,Community_Area_Name from schools;
```

score_and_community (566 rows)

Teachers_Score (short)	Community_Area_Name (string)
	SOUTH LAWNSDALE
1 88	BELMONT CRAGIN
2 48	LINCOLN SQUARE
3	HUMBOLDT PARK
4	WEST ENGLEWOOD
5	BELMONT CRAGIN
6 63	CHATHAM
7	SOUTH CHICAGO
8	NEAR NORTH SIDE
9 36	NORTH LAWNSDALE
10	RIVERDALE
11 70	LINCOLN PARK
12	NORTH LAWNSDALE
13	WEST TOWN

Task#5

[3]



```
SELECT Community_Area_Name, AVG(Teachers_Score) as Avg_Teachers_Score
FROM score_and_community
GROUP BY Community_Area_Name
ORDER BY Avg_Teachers_Score desc;
```



Console ▾

Timing

Datasets ▾

Charts ▾



community_teacher_scores (77 rows)

Views



	Community_Area_Name (string)	Avg_Teachers_Score (real)
0	EDISON PARK	71.5
1	WEST LAWN	69
2	LAKE VIEW	68
3	WEST TOWN	64.6666666666667
4	CLEARING	63.25
5	AVONDALE	63
6	EDGEWATER	62.5
7	PORTAGE PARK	61.5
8	ASHBURN	61.25
9	MOUNT GREENWOOD	61
10	HUMBOLDT PARK	59.75
11	JEFFERSON PARK	59
12	HEGEWISCH	59
13	NORTH PARK	58.3333333333333

Task#6

[4] CREATE Line Chart with Points null FOR "community_teacher_scores"



Console ▾

Timing

Datasets ▾

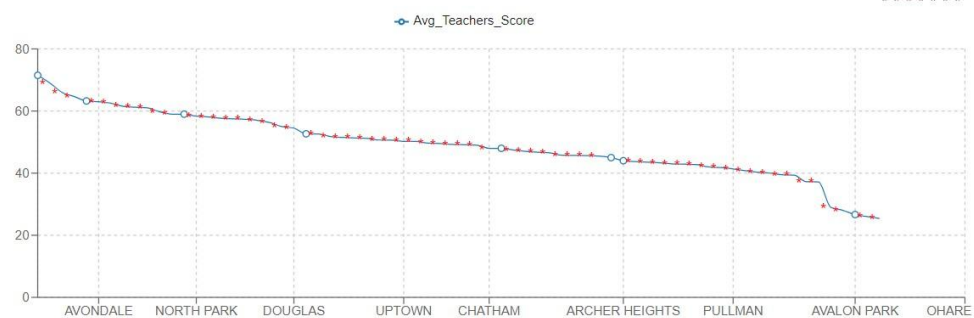
Charts ▾



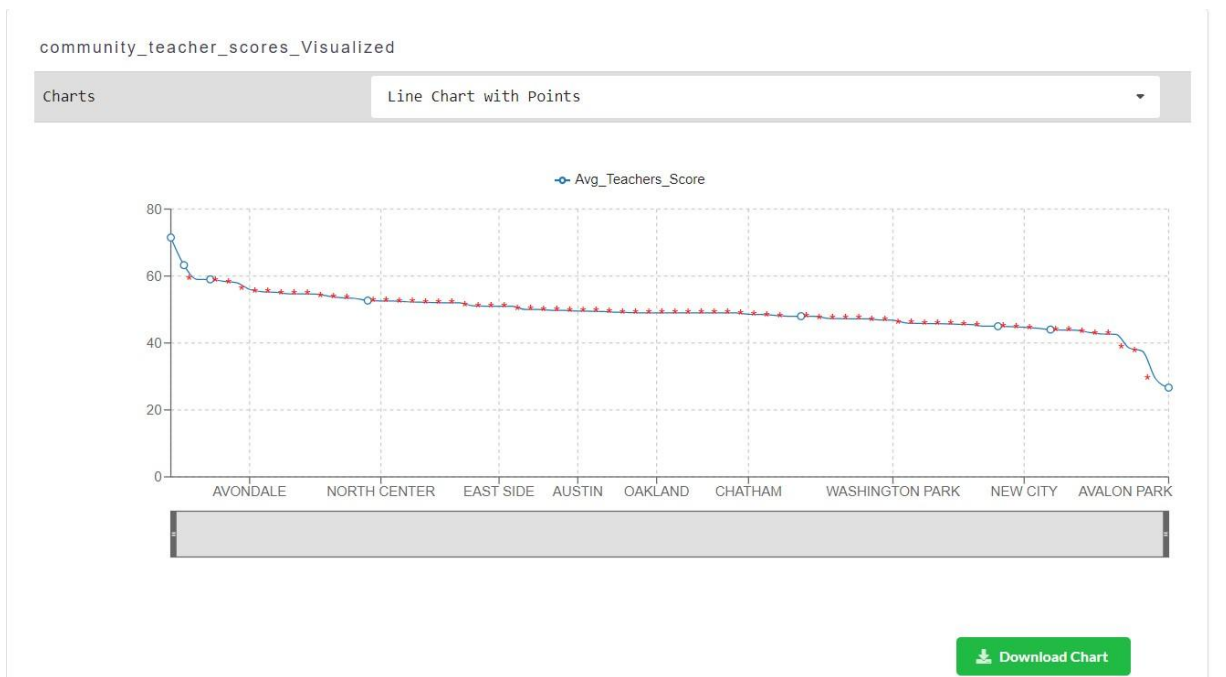
community_teacher_scores_Visualized

Charts

Line Chart with Points



Task #7



Task#8

```
[6]
≡
# Export a variable, a function or a class for use in subsequent cells
def print_avg_teachers():
    ds= vizierdb.get_dataset("community_teacher_scores")
    AverageScores=set()
    for row in ds.rows:
        AverageScores.add(row.get_value('Avg_Teachers_Score'))
    for score in AverageScores:
        print(score)
vizierdb.export_module(print_avg_teachers)
```

Console Timing Datasets Charts

```
[7]
≡
print_avg_teachers()
```

Console Timing Datasets Charts

```
51
49.4
53.5
53.333333333333336
54
49.09090909090909
26.666666666666668
29.333333333333332
```

Task #9

[8]



```
# Get read-only pandas dataframe object for dataset with given name.
df = vizierdb.get_data_frame('community_teacher_scores')
filtered_df=df[df['Avg_Teachers_Score']>=30.0]
print(filtered_df)
```



Console ▾

Timing

Datasets ▾

Charts ▾



	Community_Area_Name	Avg_Teachers_Score
0	EDISON PARK	71.500000
1	CLEARING	63.250000
2	WEST LAWN	59.000000
3	HEGEWISCH	59.000000
4	WEST TOWN	58.400000
..
70	WOODLAWN	43.125000
71	WEST ELSDON	42.666667
72	LOGAN SQUARE	42.545455
73	FULLER PARK	38.500000
74	SOUTH CHICAGO	37.571429

[75 rows x 2 columns]