### **Assignment 3**

```
In [31]: import pymysql
import pandas as panda

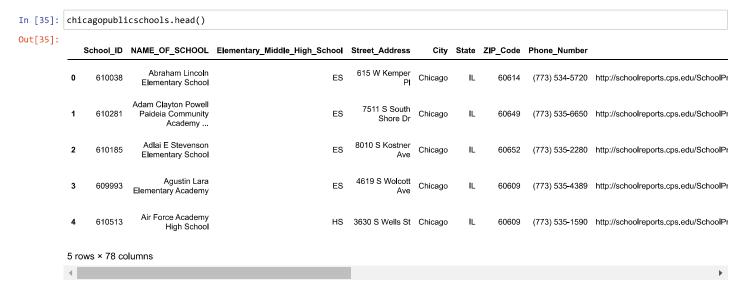
conn=pymysql.connect(host='localhost',port=int(3307),user='root',passwd='12345',db='assignment_3')
```

### Importing the Data from the Mysql Workbench

```
In [32]:
chicagocensusdata = panda.read_sql_query("SELECT * FROM chicagocensusdata",conn)
chicagocrimedata = panda.read_sql_query("SELECT * FROM chicagocrimedata",conn)
chicagopublicschools = panda.read_sql_query("SELECT * FROM chicagopublicschools",conn)
```

# Displaying the first few rows of the tables that we are going to use for this assignment

[33]: t[33]:	C111	.cugocens	usdata.head()												
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t[34]:		ID	CASE_NUMBER	DAT	E BLOCK	IUCR	PRIMARY_TYPE	DESCRIPTION	LOCATION_DESC	RIPTION A	RREST	DOMESTIC		DISTRICT	WARD
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	1	3406613	HK456306	2004 06 <b>-</b> 2		820	THEFT	\$500 AND UNDER		OTHER	FALSE	FALSE		11	27
	2	8002131	HT233595	201 04 <b>-</b> 0		820	THEFT	\$500 AND UNDER	UOME/DETIC	URSING REMENT HOME	FALSE	FALSE		2	3
	3	7903289	HT133522	2010 12-3		840	THEFT	FINANCIAL ID THEFT: OVER \$300		IDENCE	FALSE	FALSE		4	7
	4	10402076	HZ138551	2010 02-0		820	THEFT	\$500 AND UNDER		ALLEY	FALSE	FALSE		8	15

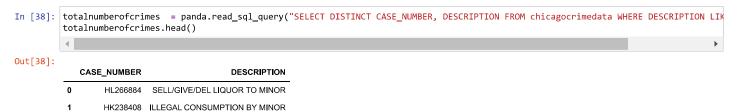


### Problem 1: Find the total number of crimes recorded in the CRIME table

### Problem 2: List community areas with per capita income less than 11000



# Problem 3: List all case numbers for crimes involving minors? (children are not considered minors for the purposes of crime analysis)



## Problem 4: List all kidnapping crimes involving a child?

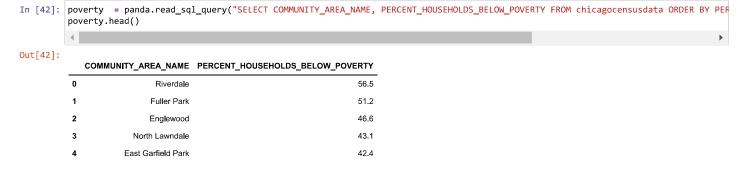


#### Problem 5: What kinds of crimes were recorded at schools?

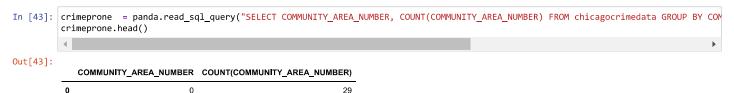


### Problem 6: List the average safety score for each type of school

# Problem 7: List 5 community areas with highest % of households below poverty line



## Problem 8: Which community area is most crime prone?



# Problem 9: Use a sub-query to find the name of the community area with highest hardship index $\P$



## Problem 10: Use a sub-query to determine the Community Area Name with the most # of crimes?

	mostcrimes mostcrimes.		ql_query("SELECT	COMMUNITY_AREA_NAME	FROM chicagocensusdata	WHERE	COMMUNITY_	_AREA_NUMBER	= (SELECT	COM
	4									•
	COMMUNI	TY_AREA_NAME								
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In [ ]:										
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