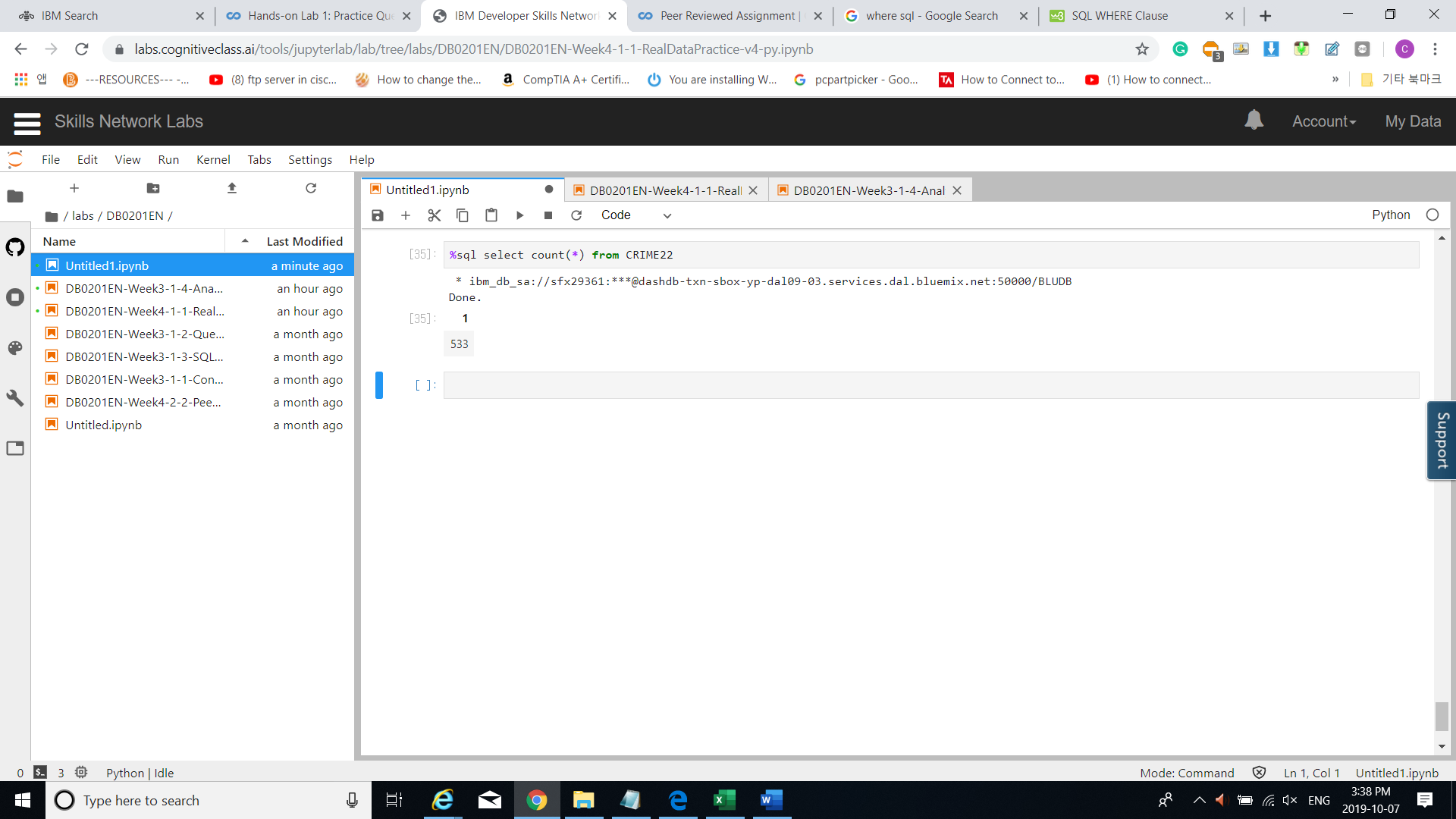
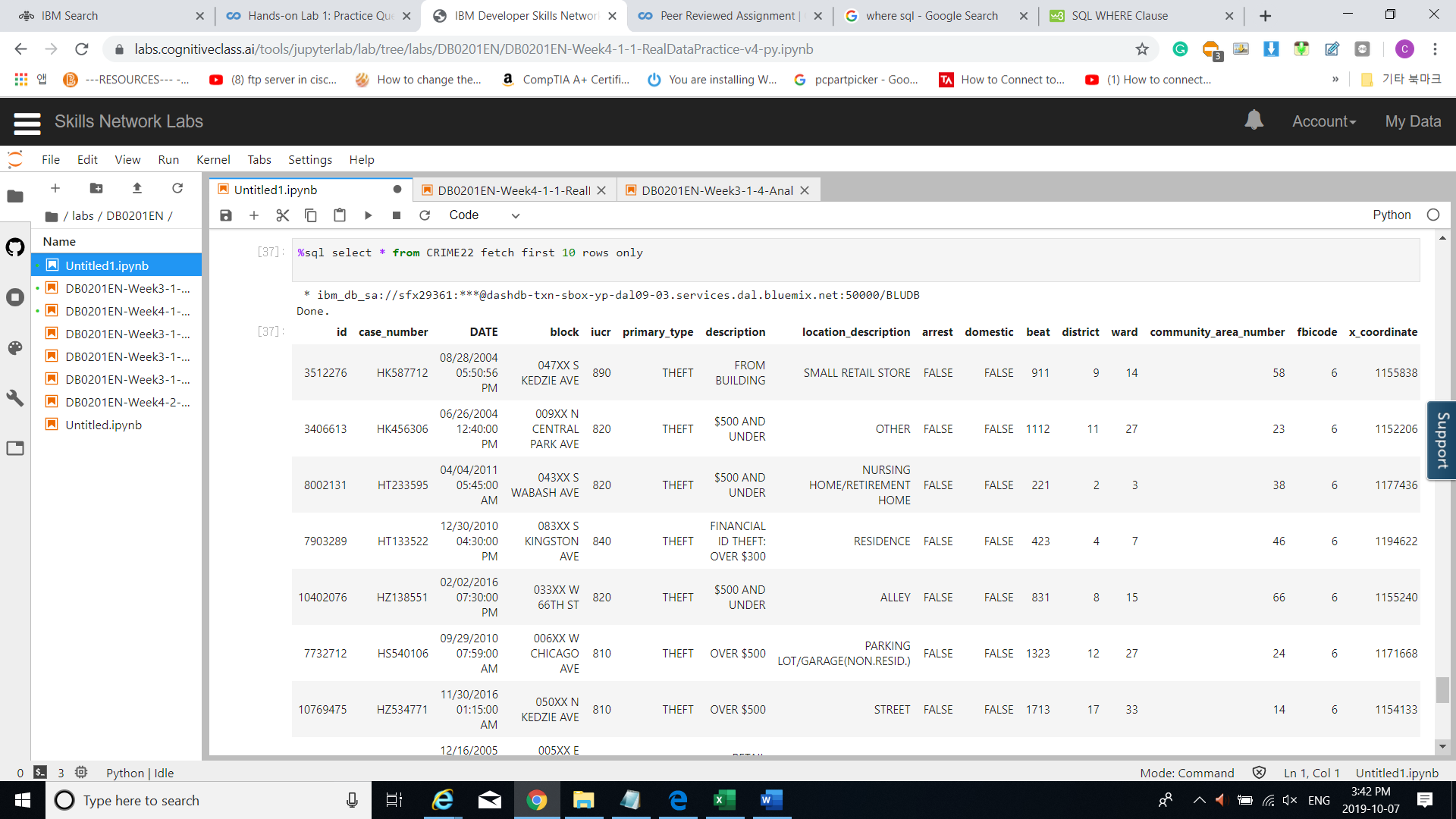
Problem 1: Find the total number of crimes recorded in the crime table.

%sql select count(\*) from CRIME22



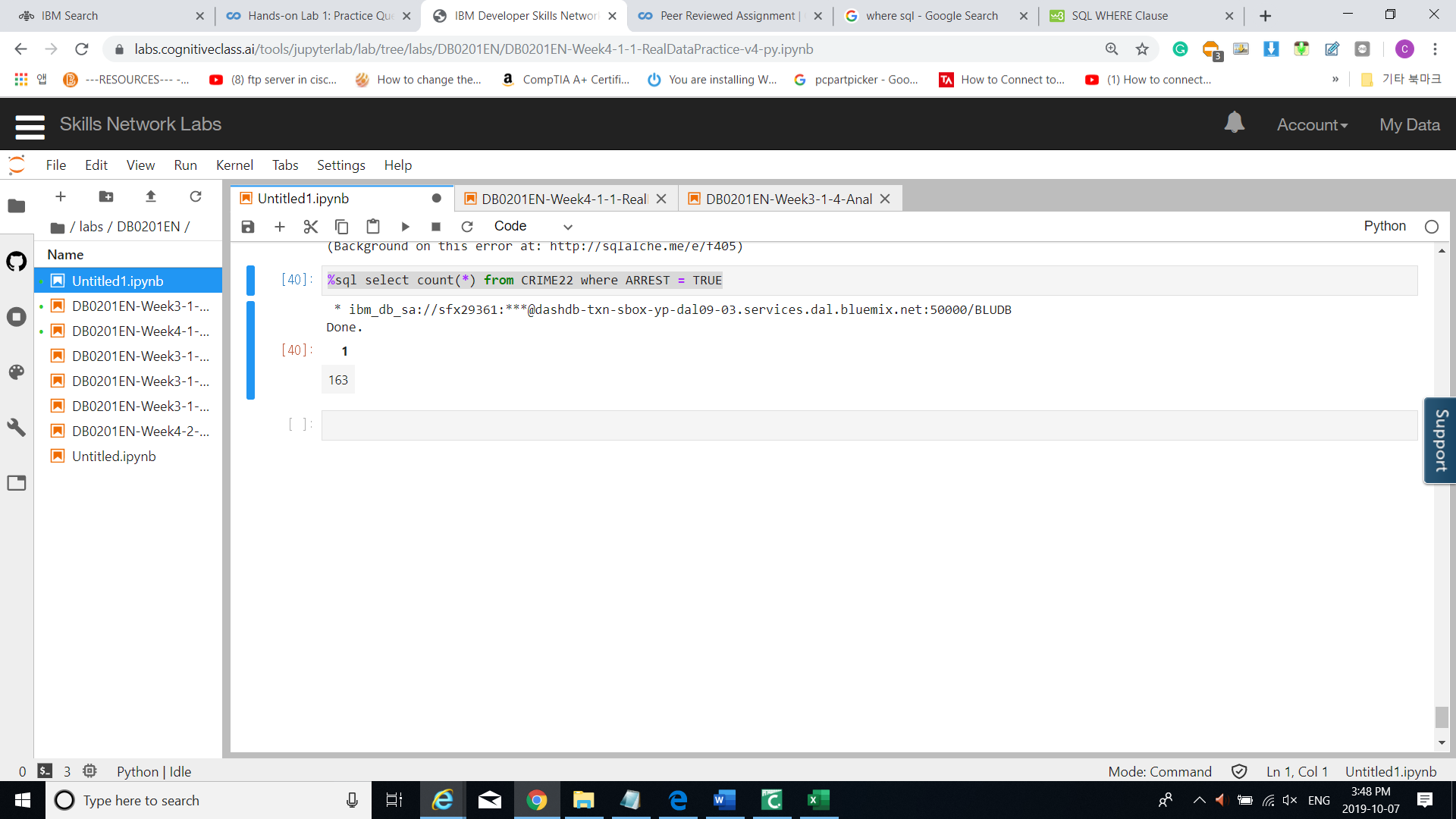
Problem 2: Retrieve first 10 rows from the CRIME table.

%sql select \* from CRIME22 fetch first 10 rows only



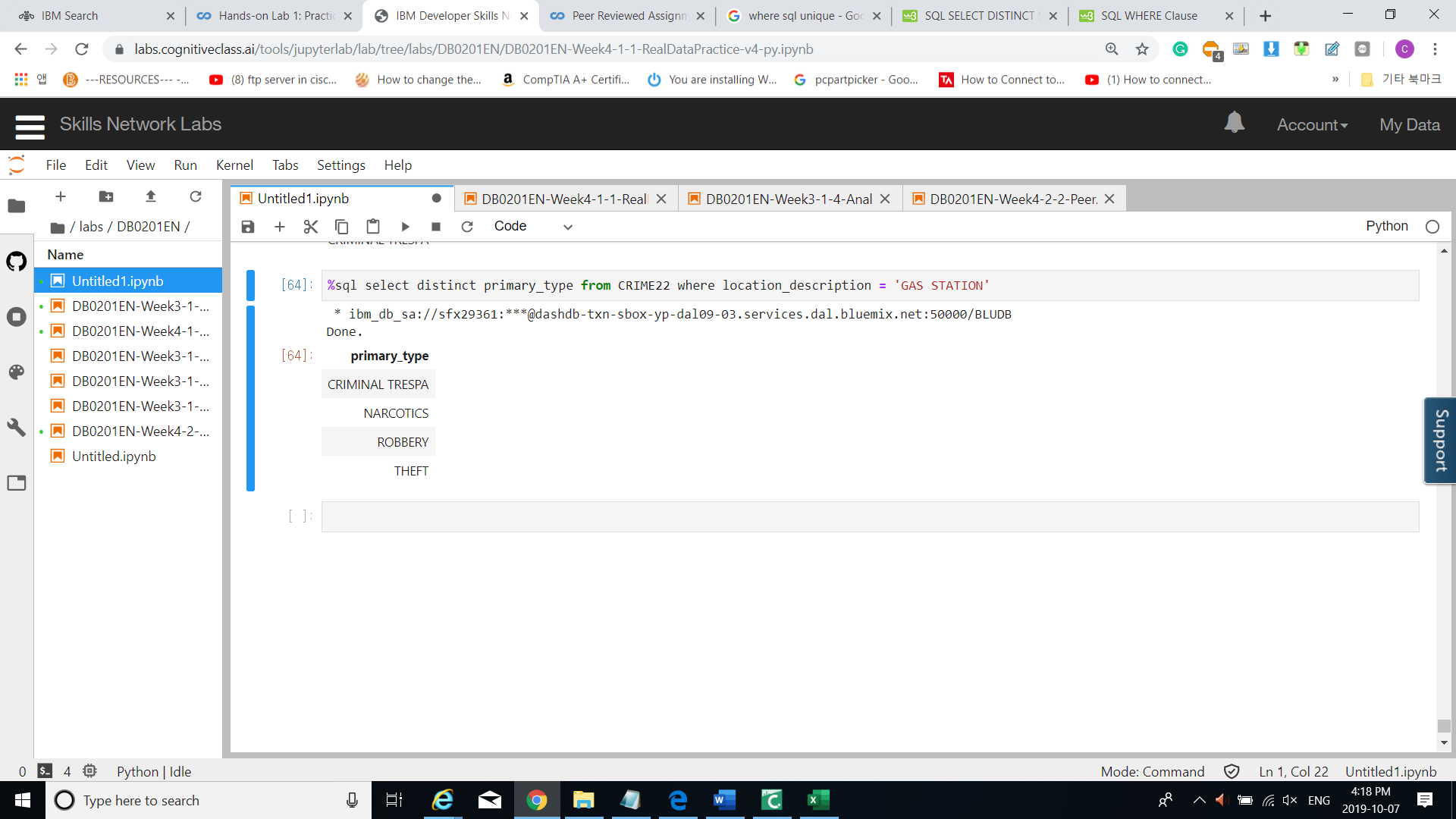
Problem 3: How many crimes involve an arrest.

%sql select count(\*) from CRIME22 where ARREST = TRUE



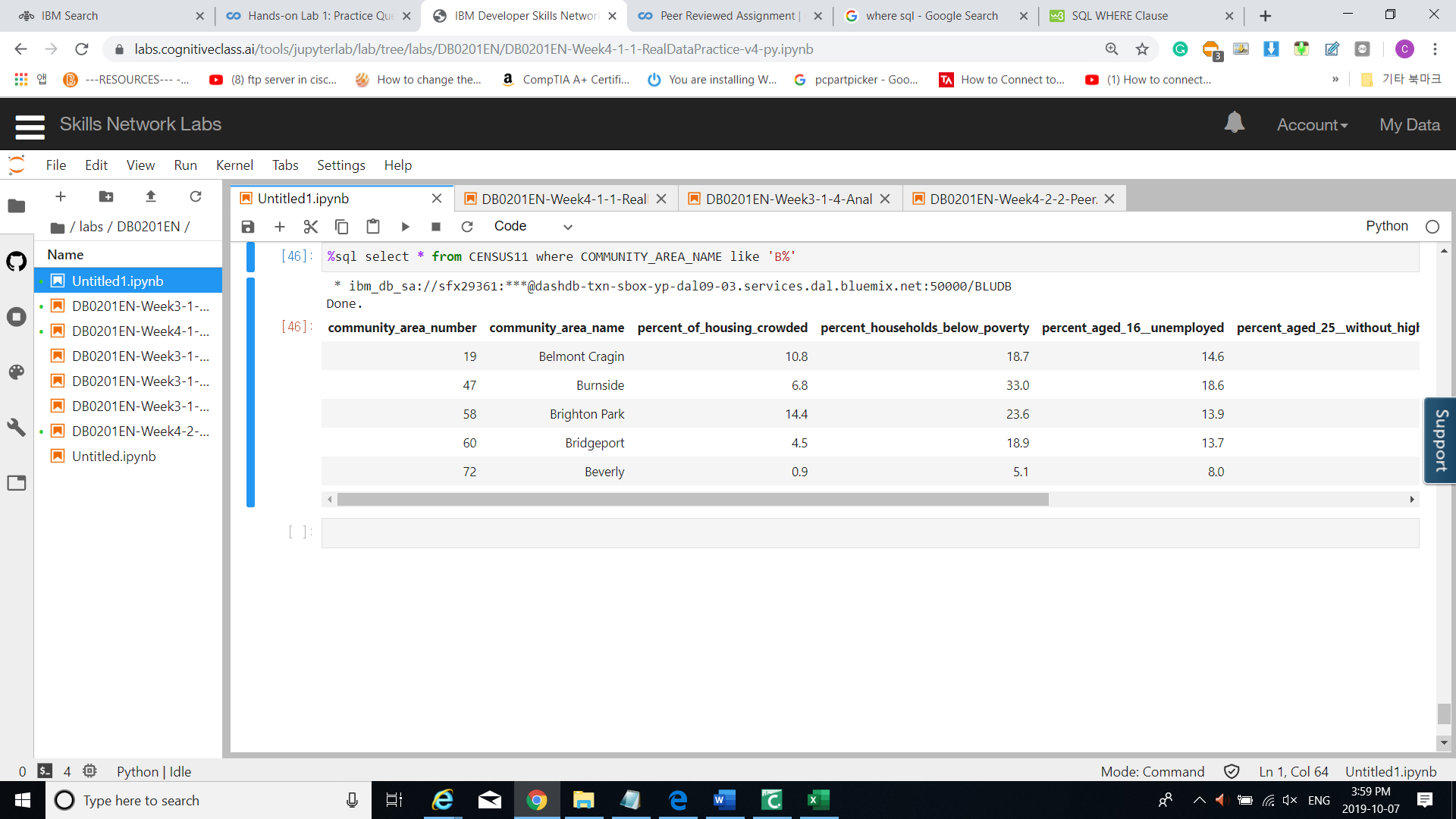
Problem 4: Which unique types of crimes (e.g. THEFT) have been recorded at a GAS STATION locations?

%sql select distinct primary\_type from CRIME22 where location\_description = 'GAS STATION'



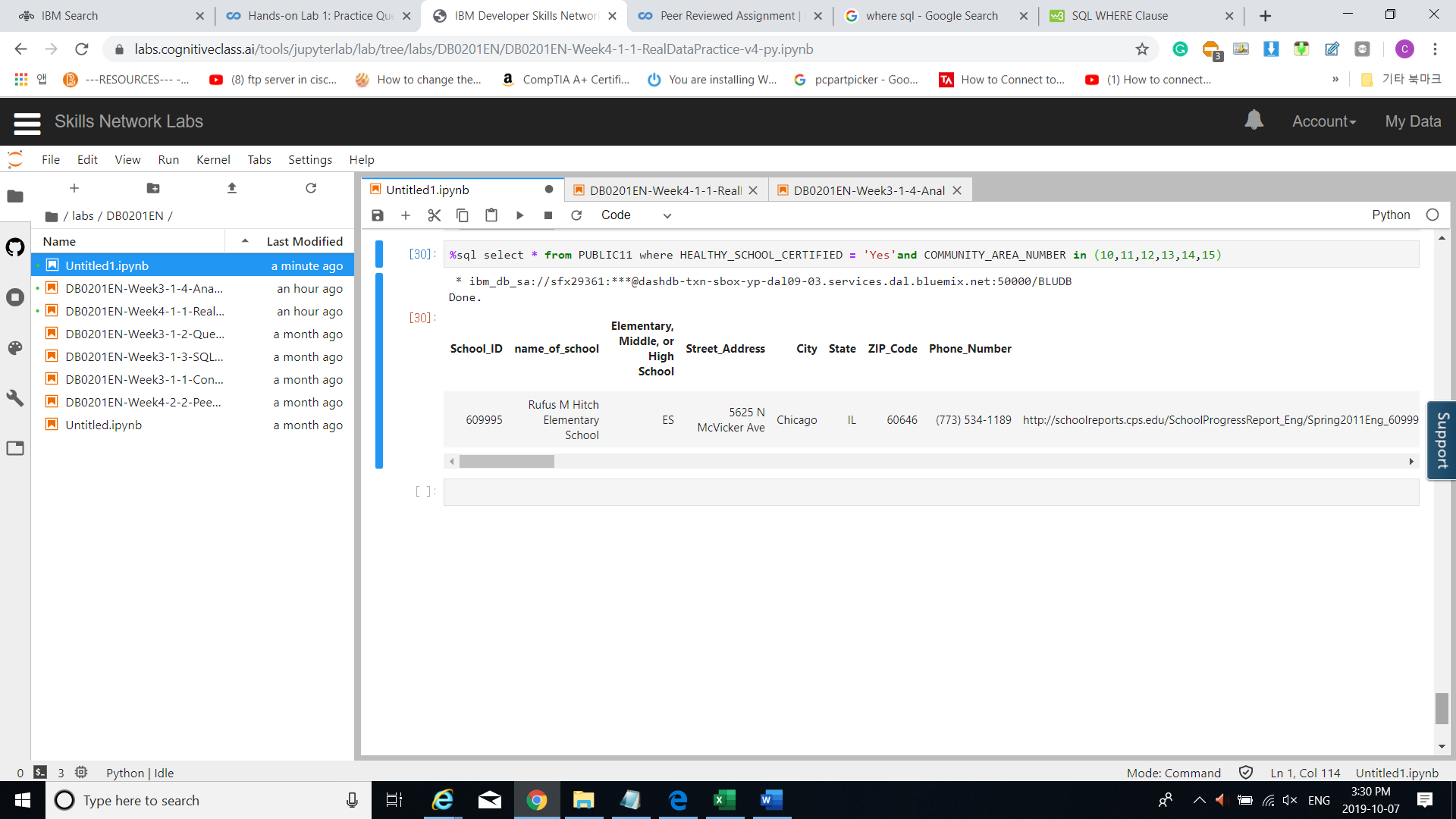
Problem 5: In the CENUS\_DATA table list all community areas whose names start with the letter ‘B’.

%sql select \* from CENSUS11 where COMMUNITY\_AREA\_NAME like 'B%'



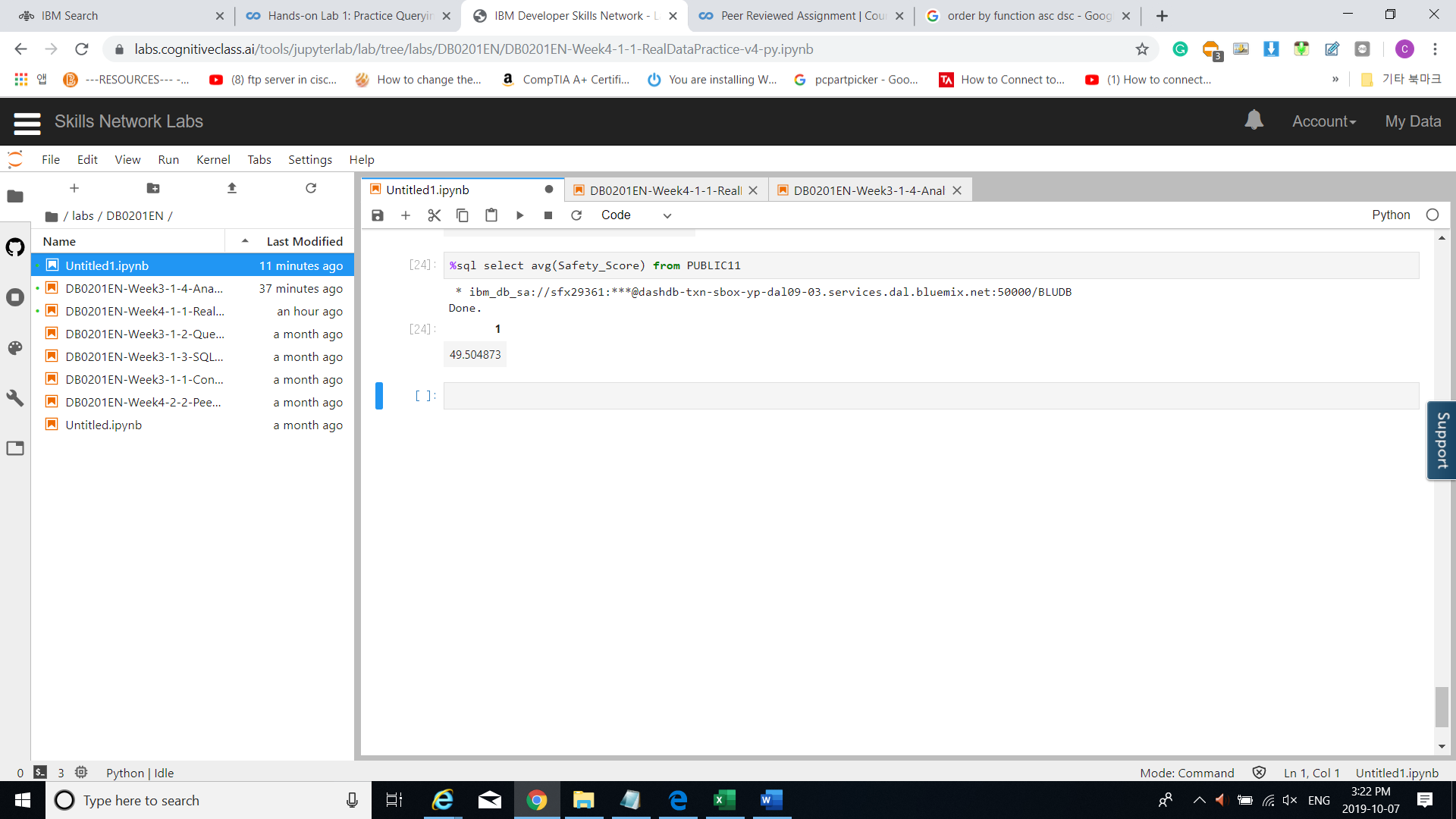
Problem 6: List the schools in community areas 10 to 15 that are healthy school certified.

%sql select \* from PUBLIC11 where HEALTHY\_SCHOOL\_CERTIFIED = 'Yes' and COMMUNITY\_AREA\_NUMBER in (10,11,12,13,14,15)



Problem 7: What is the average school Safety Score?

%sql select avg(Safety\_Score) from PUBLIC11



Problem 8: Find the top 5 Community Areas by average College Enrollment [number of students].

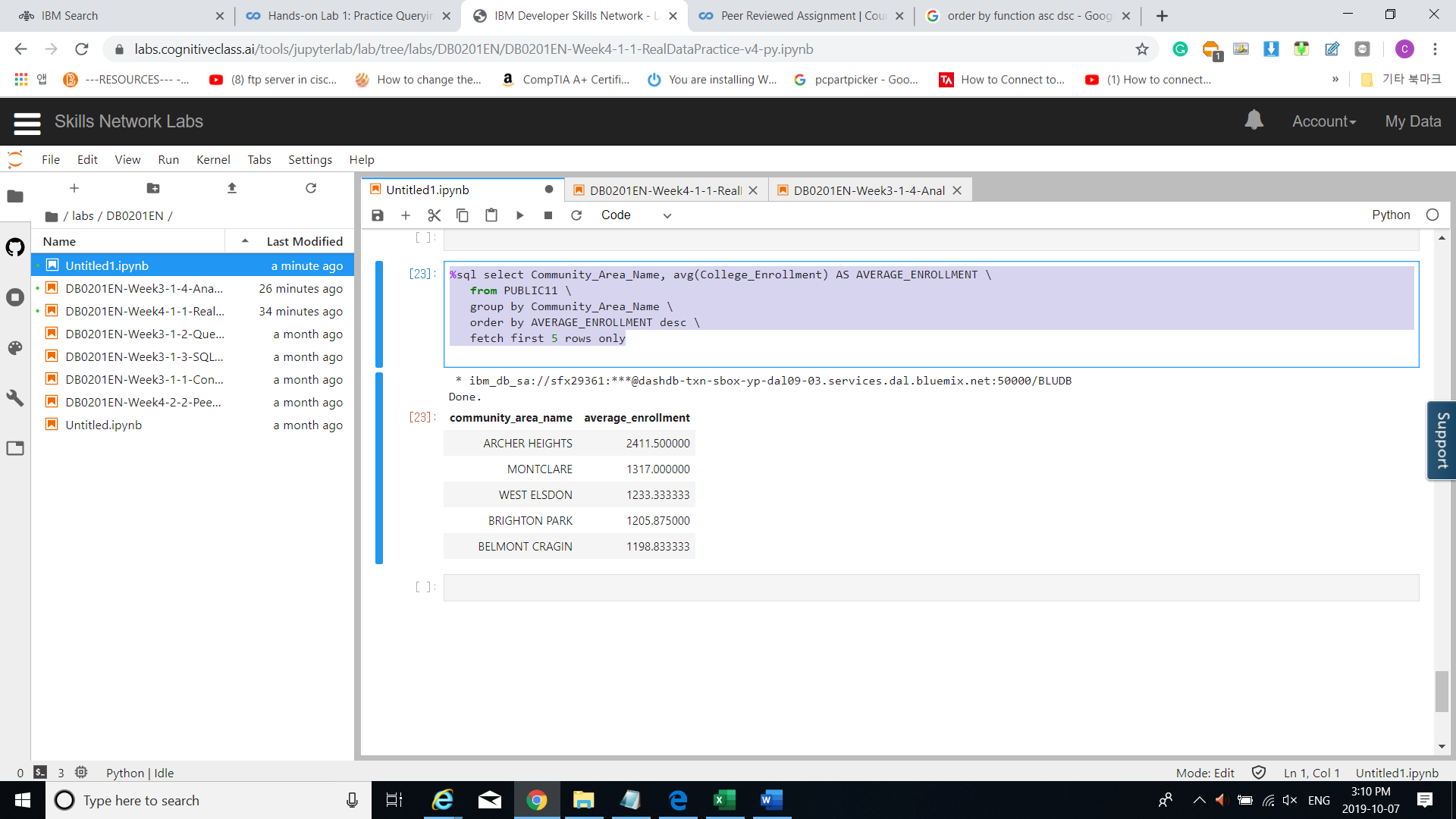
%sql select Community\_Area\_Name, avg(College\_Enrollment) AS AVERAGE\_ENROLLMENT \

from PUBLIC11 \

group by Community\_Area\_Name \

order by AVERAGE\_ENROLLMENT desc \

fetch first 5 rows only



Problem 9: Use a sub-query to determine which Community Area has the least value for school Safety Score.

%sql select Community\_Area\_Name, Safety\_score \

from PUBLIC11 \

order by Safety\_score asc

fetch first 5 rows only

%sql select community\_area\_name from PUBLIC11 where safety\_score< 20

%sql select distinct primary\_type from CRIME22

\ where (select from PUBLIC11 where safety\_score< 90)

Problem 10: [Without using an explicit JOIN operator] Find the Per Capita Income of the Community Area which has a school Safety Score of 1.

1. **SELECT column-names**
2. **FROM table-name1**
3. **WHERE value IN (SELECT column-name**
4. **FROM table-name2**
5. **WHERE condition)**

%sql select communy\_area\_name, per\_capita\_income

from CENSUS11

where community\_area\_name in ( select community\_area\_name \

from PUBLIC11 \

where safey\_score = 1 )