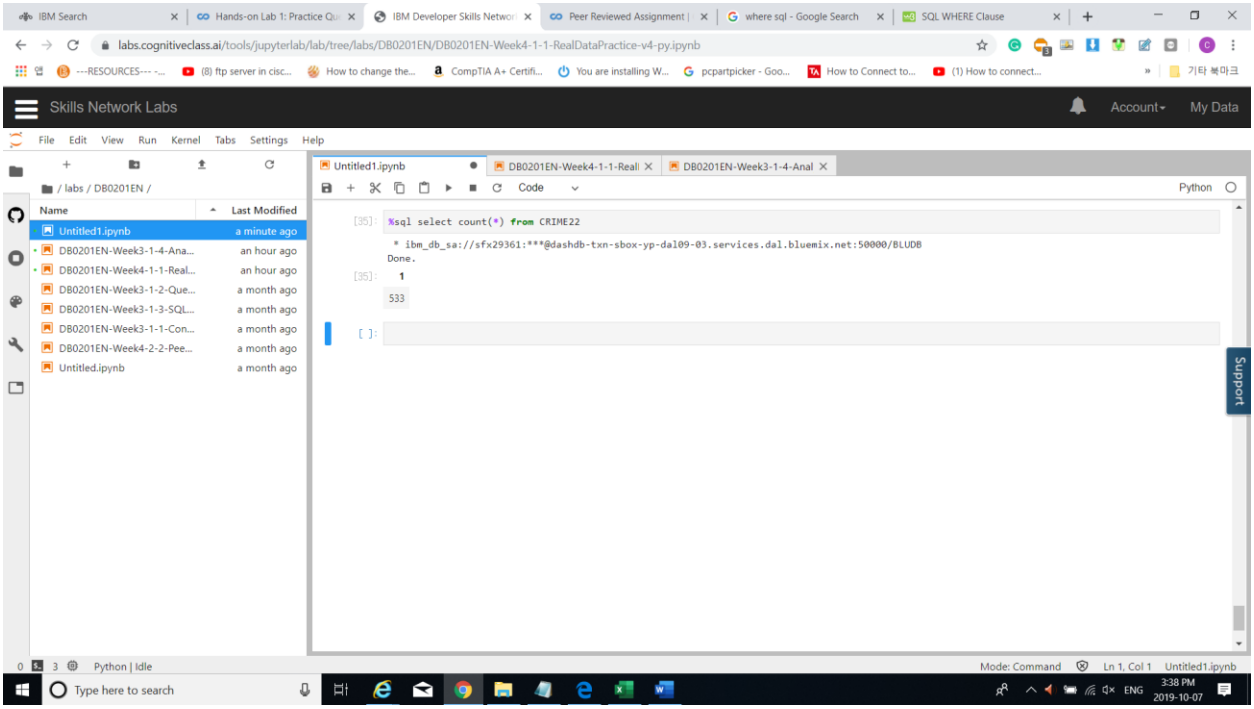
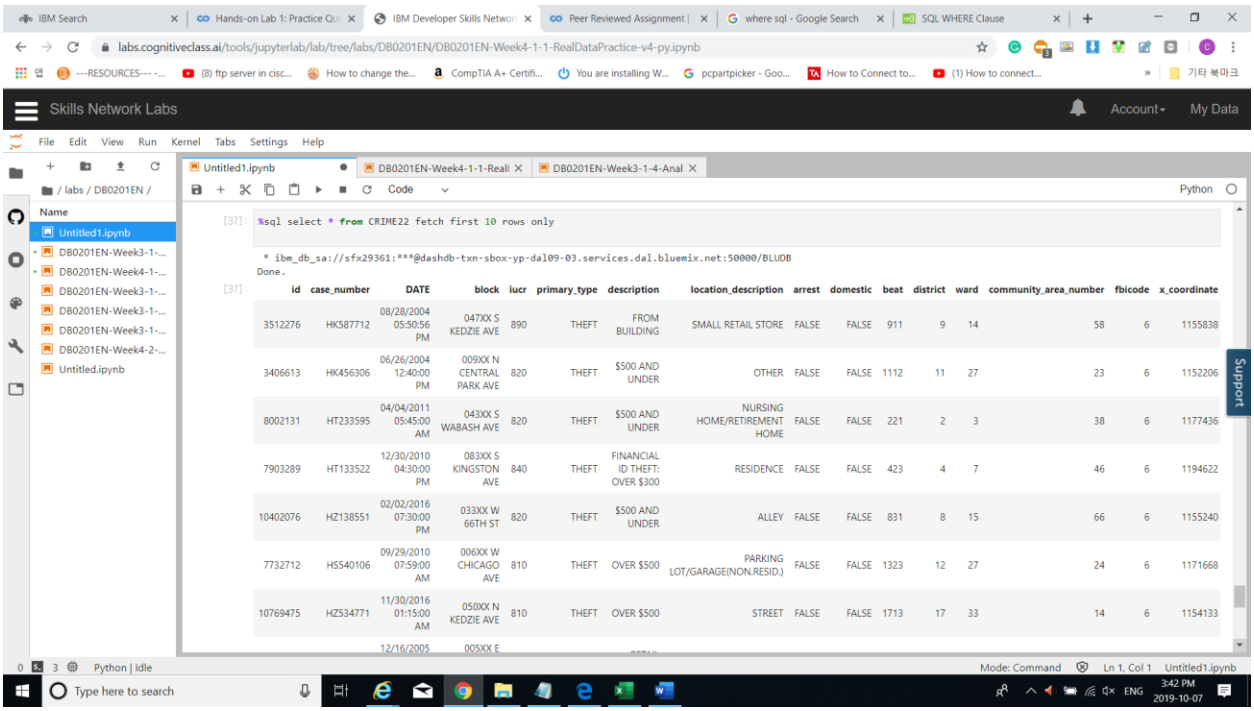
Problem 1: Find the total number of crimes recorded in the crime table.

%sql select count(*) from CRIME22



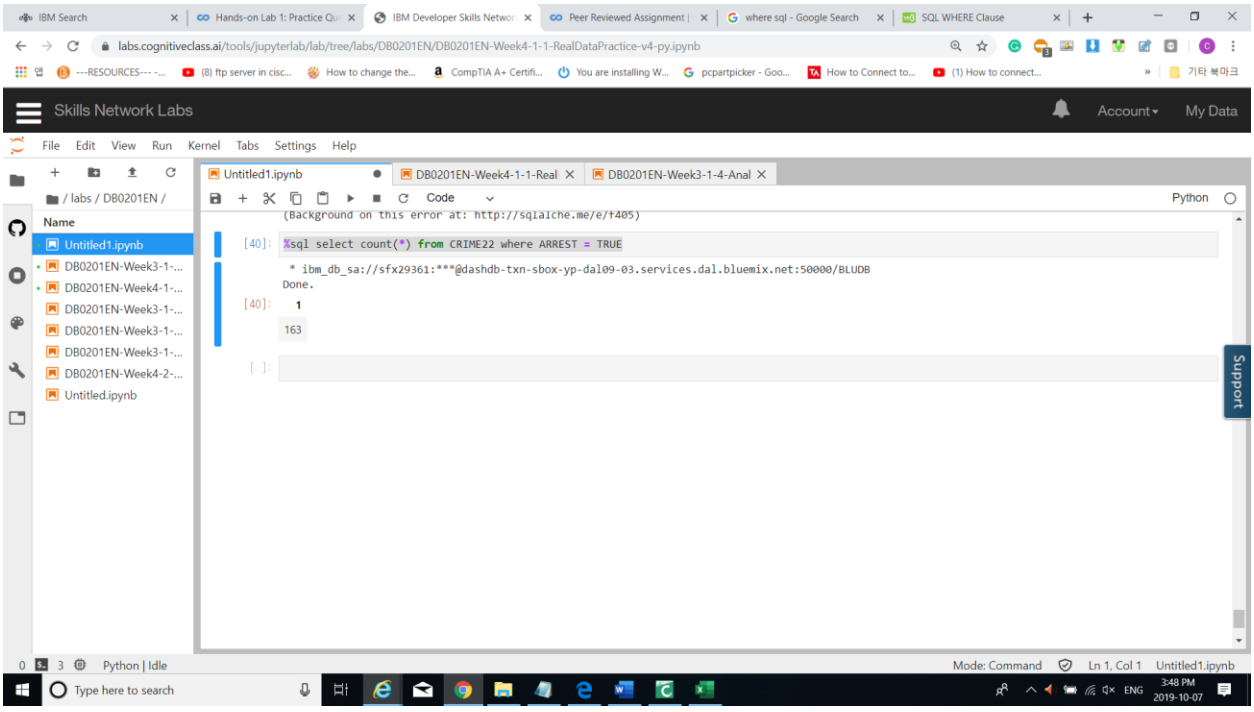
Problem 2: Retrieve first 10 rows from the CRIME table.

%sql select * from CRIME22 fetch first 10 rows only



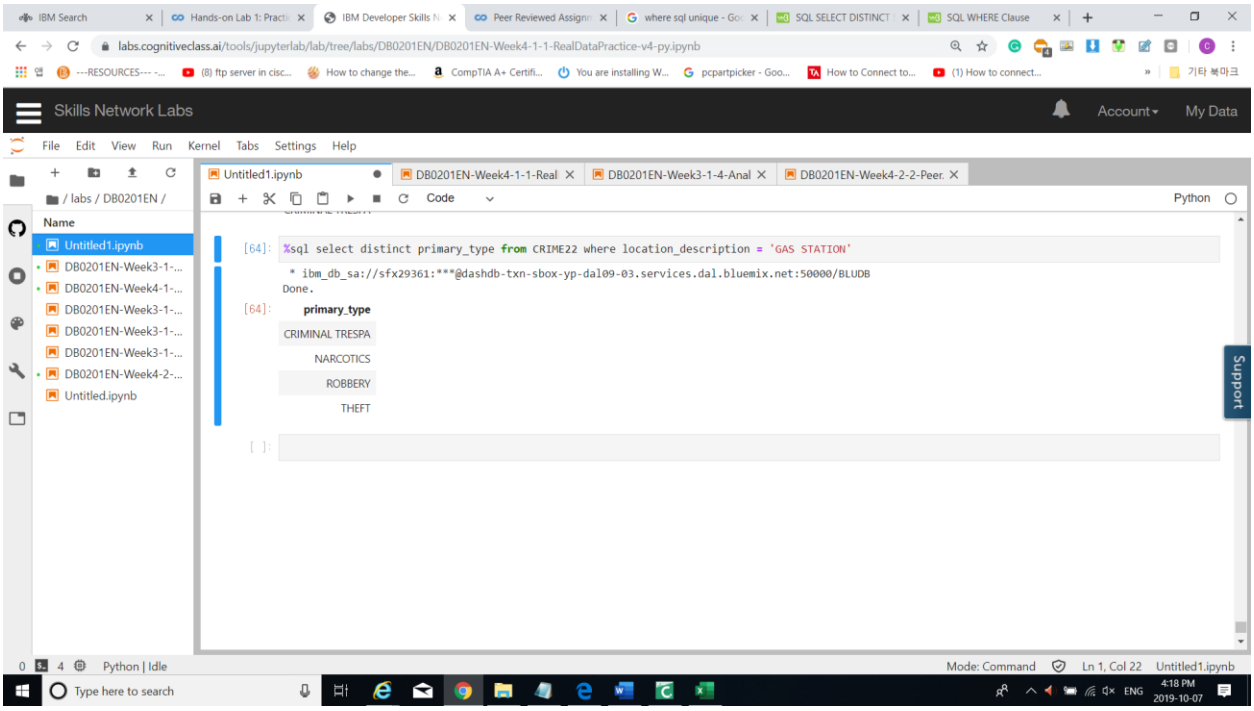
Problem 3: How many crimes involve an arrest.

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



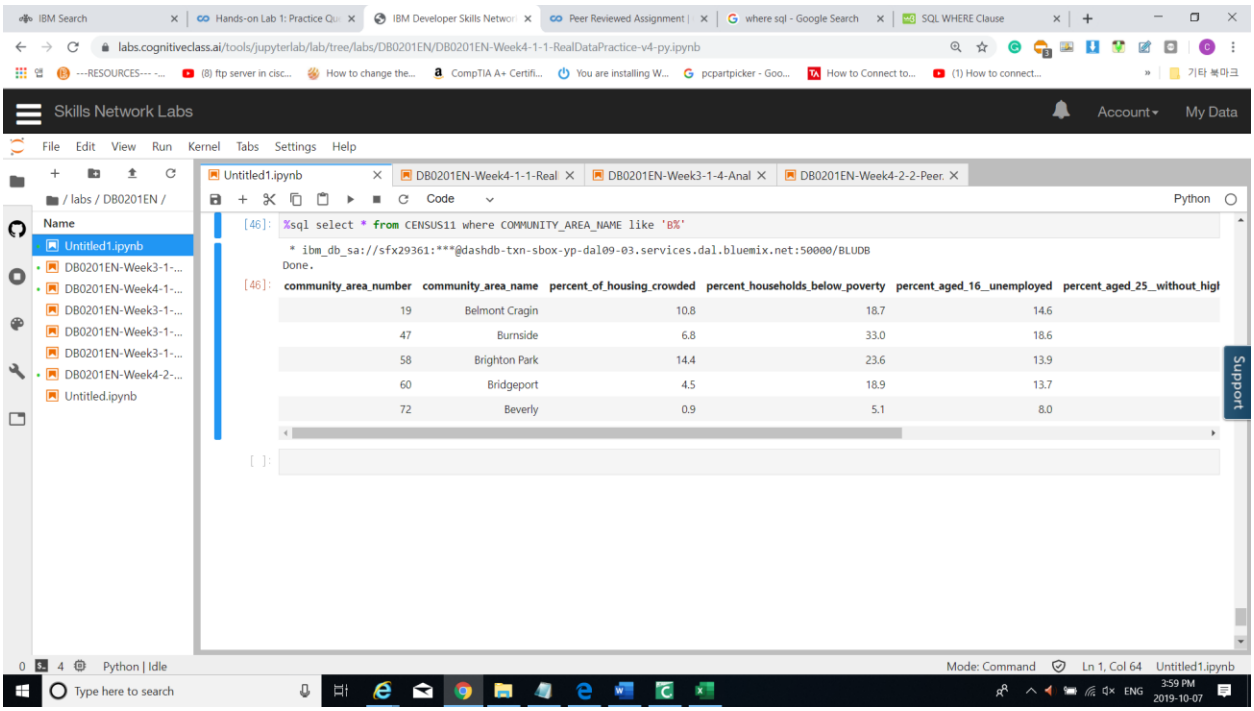
Problem 4: Which unique types of crimes (e.g. THEFT) have been recorded at a GAS STATION locations?

%sql select distinct primary_type from CRIME22 where location_description = 'GAS STATION'



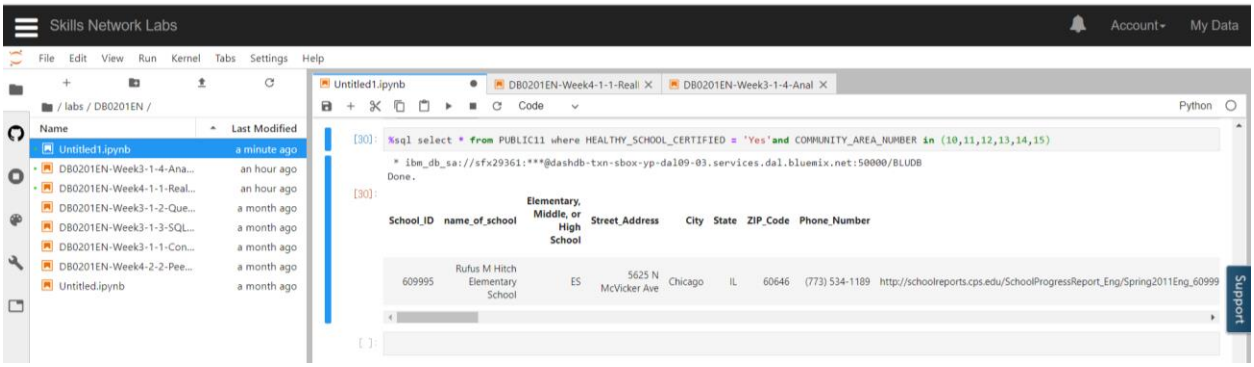
Problem 5: In the CENUS_DATA table list all community areas whose names start with the letter ‘B’.

%sql select * from CENSUS11 where COMMUNITY_AREA_NAME like 'B%'



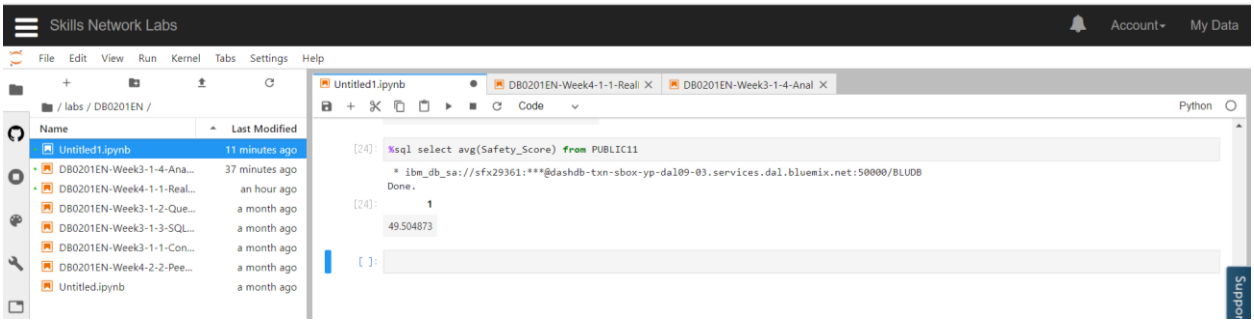
Problem 6: List the schools in community areas 10 to 15 that are healthy school certified.

%sql select * from PUBLIC11 where HEALTHY_SCHOOL_CERTIFIED = 'Yes' and COMMUNITY_AREA_NUMBER in (10,11,12,13,14,15)



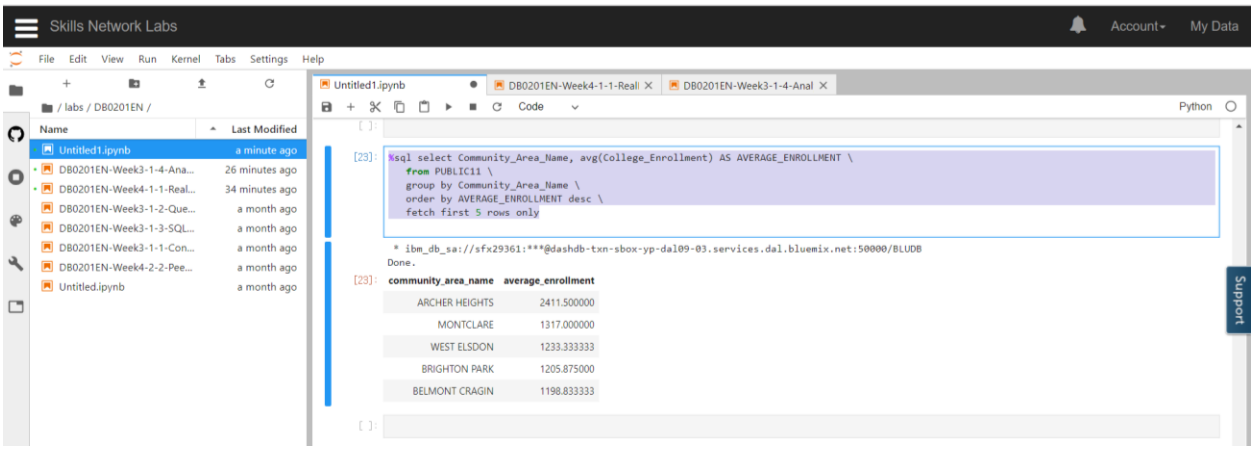
Problem 7: What is the average school Safety Score?

%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.

```
SELECT column-names
  FROM table-name1
 WHERE value IN (SELECT column-name
                   FROM table-name2
                  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   )