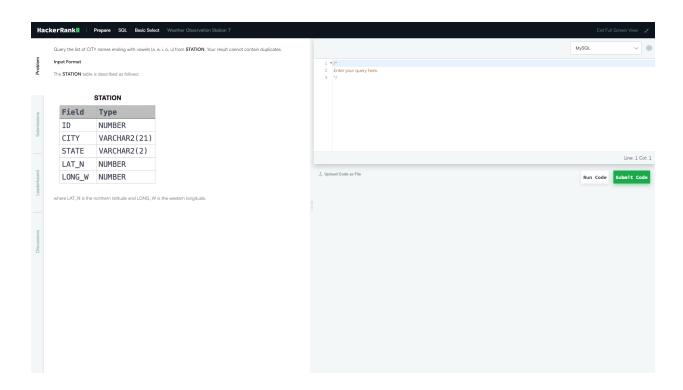
SQL queries

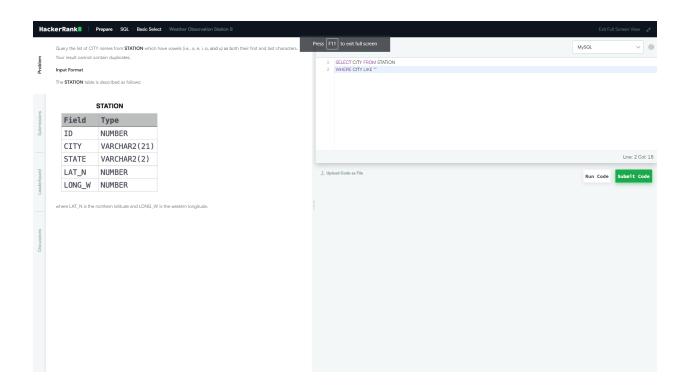
Q1



answer:

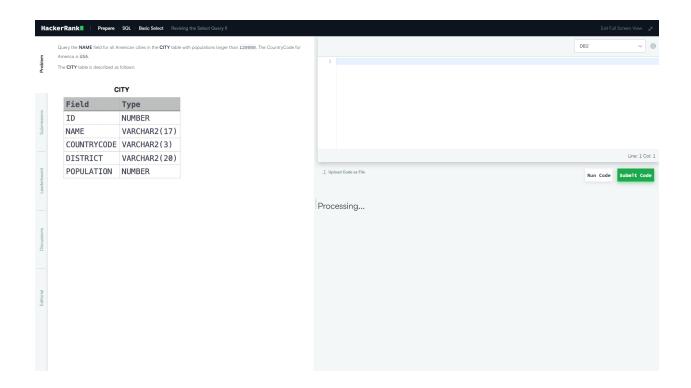
SELECT DISTINCT CITY
FROM STATION
WHERE CITY LIKE "%a" OR CITY LIKE "%e" OR CITY LIKE "%i" OR CITY LIKE
"%o" OR CITY LIKE "%u";

Q2



```
SELECT DISTINCT city
FROM station
WHERE city RLIKE '^[aeiouAEIOU].*[aeiouAEIOU]$'
```

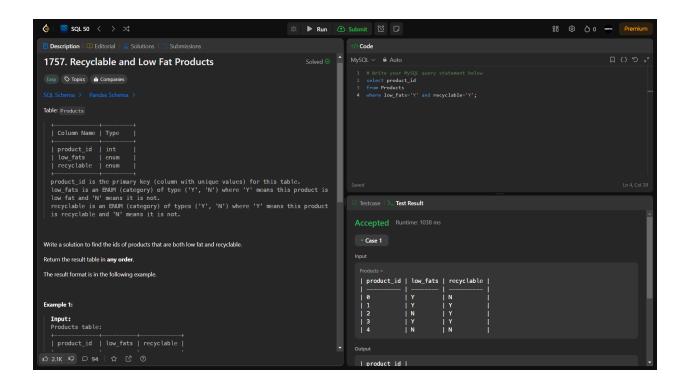
Q3:



SELECT NAME
FROM CITY
WHERE COUNTRYCODE= "USA" AND POPULATION >= 120000

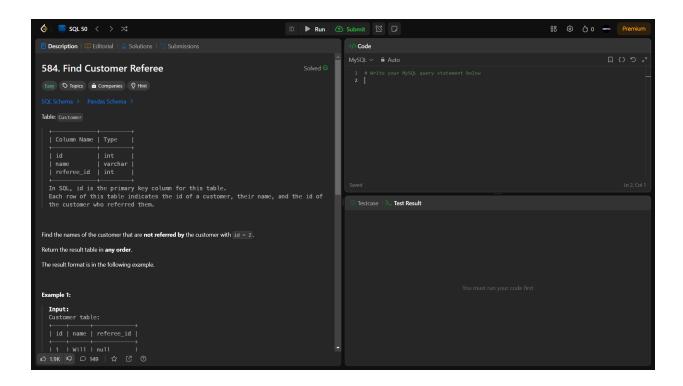
Leetcode sql challenge:

Q1:



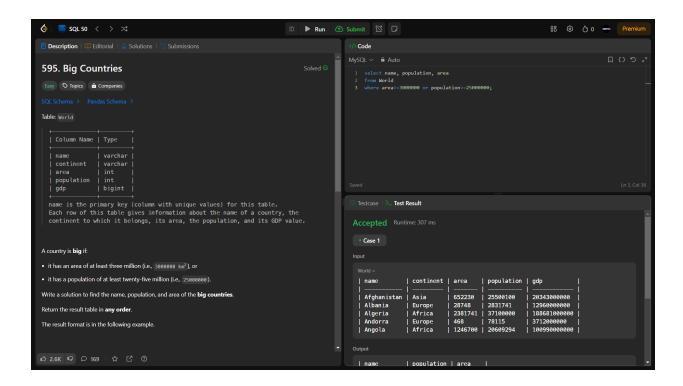
```
select product_id
from Products
where low_fats='Y' and recyclable='Y';
```

q2:



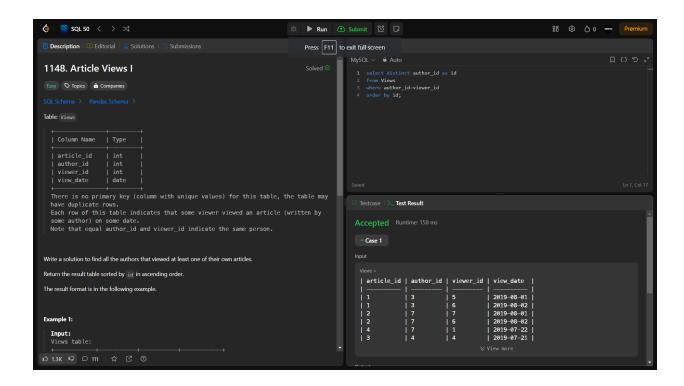
```
SELECT name
FROM Customer
WHERE referee_id IS NULL OR referee_id <> 2;
```

q3:



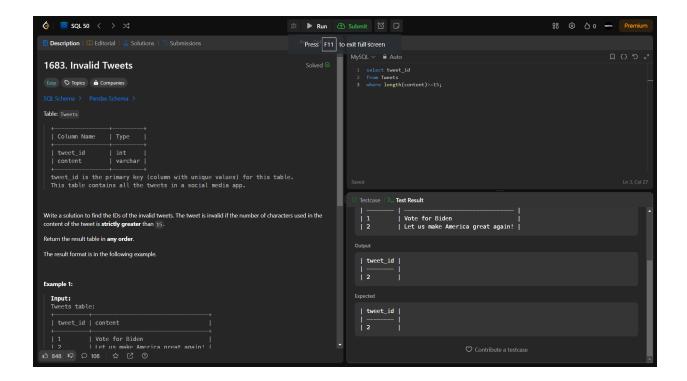
```
select name, population, area from World where area>=3000000 or population>=25000000;
```

question 4:



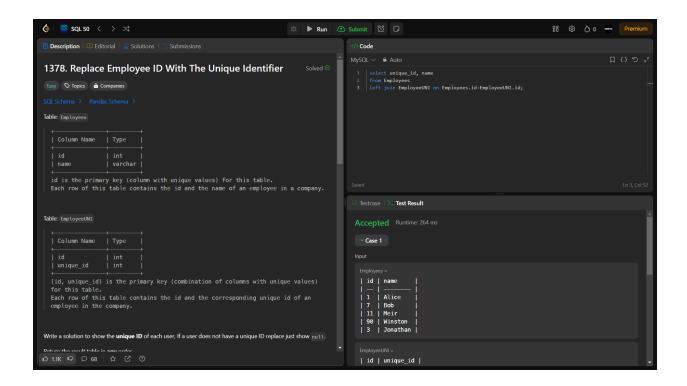
```
select distinct author_id as id
from Views
where author_id=viewer_id
order by id;
```

question 5:



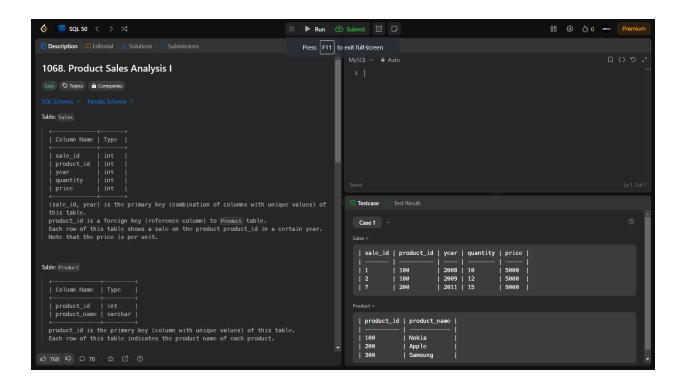
```
select tweet_id
from Tweets
where length(content)>15;
```

question 6:



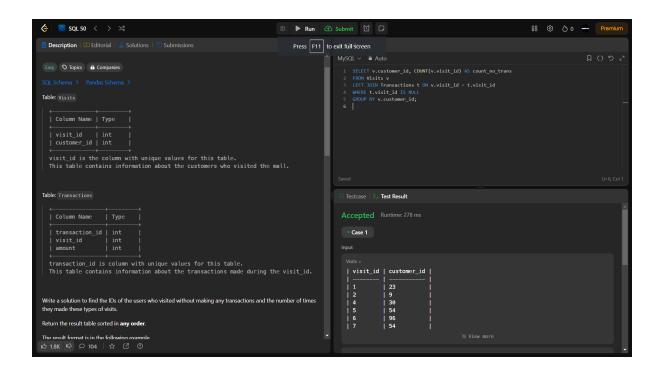
```
select unique_id, name
from Employees
left join EmployeeUNI on Employees.id=EmployeeUNI.id;
```

q7:



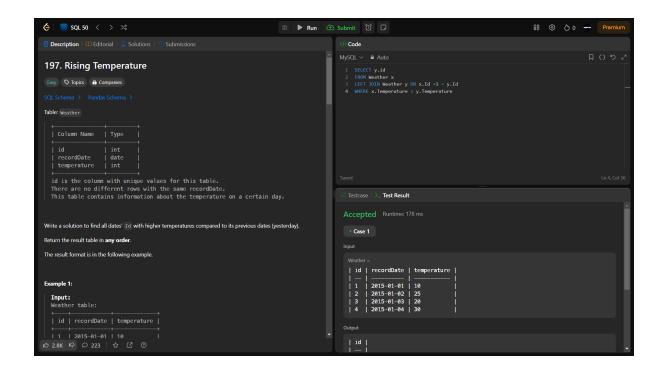
select product_name, year, price from Sales inner join Product on Sales.product_id=Product.product

q8:



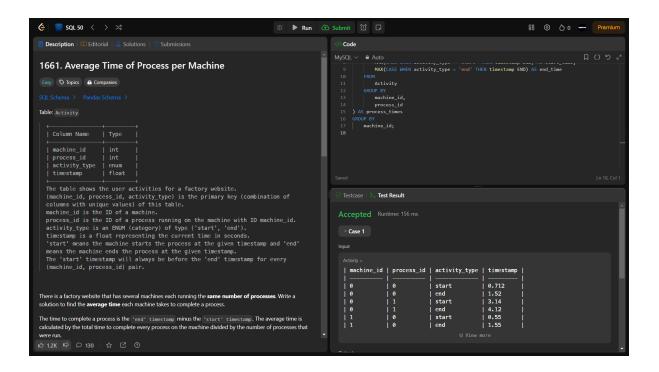
```
SELECT v.customer_id, COUNT(v.visit_id) AS count_no_trans
FROM Visits v
LEFT JOIN Transactions t ON v.visit_id = t.visit_id
WHERE t.visit_id IS NULL
GROUP BY v.customer_id;
```

q9:



```
SELECT w.id
FROM Weather w
JOIN Weather w_prev ON w.recordDate = DATE_ADD(w_prev.recordD
WHERE w.temperature > w_prev.temperature;
```

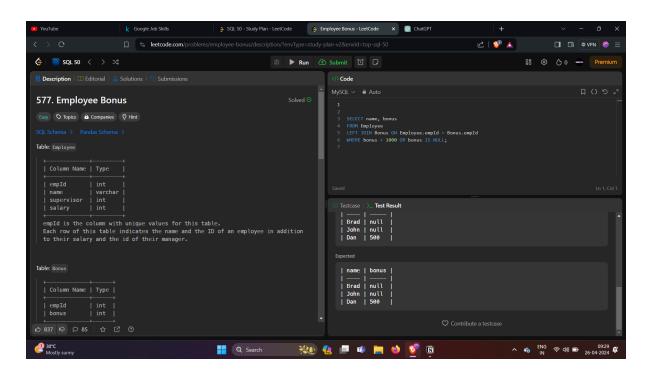
q10:



```
SELECT
   machine_id,
   ROUND(AVG(end_time - start_time), 3) AS processing_time
FROM (
   SELECT
       machine_id,
       process_id,
       MAX(CASE WHEN activity_type = 'start' THEN timestamp
       MAX(CASE WHEN activity_type = 'end' THEN timestamp EN
   FROM
       Activity
   GROUP BY
       machine_id,
       process_id
) AS process_times
```

```
GROUP BY machine_id;
```

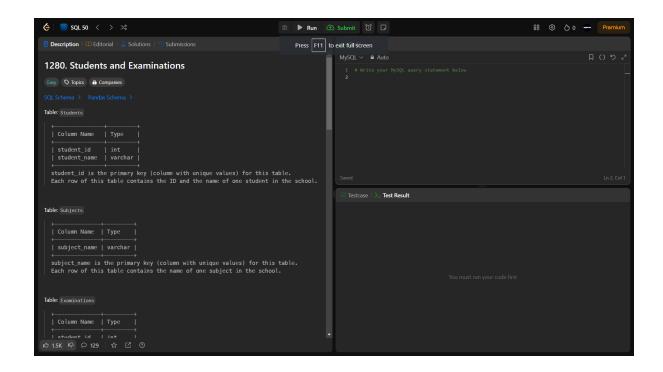
q11:



answer:

```
SELECT name, bonus
FROM Employee
LEFT JOIN Bonus ON Employee.empId = Bonus.empId
WHERE bonus < 1000 OR bonus IS NULL;
```

q12:



SELECT

Students.student_id,

Students.student_name,

Subjects.subject_name,

COUNT(Examinations.subject_name) AS attended_exams

FROM

Students

CROSS JOIN

Subjects

LEFT JOIN

Examinations ON Students.student_id = Examinations.student_id

AND Subjects.subject_name = Examinations.subject_name

GROUP BY

Students.student_id,

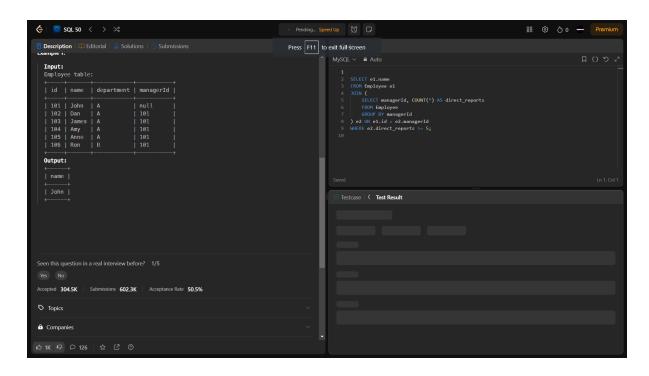
Students.student_name,

Subjects.subject_name

ORDER BY

Students.student_id, Subjects.subject_name;

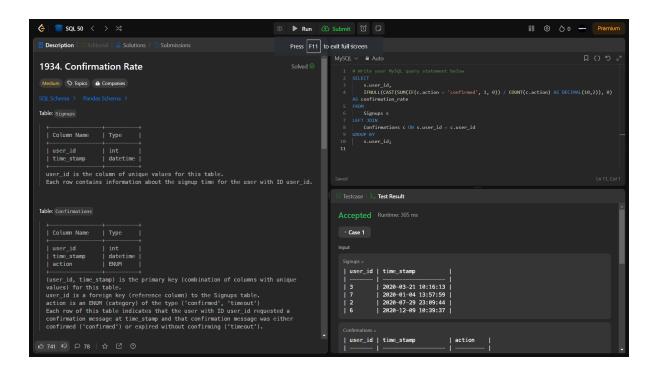
q12:



answer:

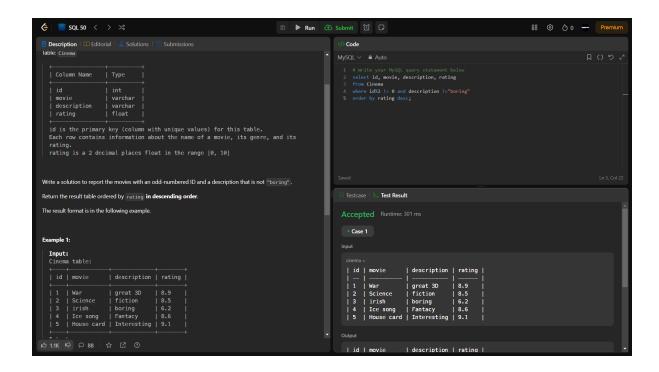
```
SELECT e1.name
FROM Employee e1
JOIN (
    SELECT managerId, COUNT(*) AS direct_reports
    FROM Employee
    GROUP BY managerId
) e2 ON e1.id = e2.managerId
WHERE e2.direct_reports >= 5;
```

q13:



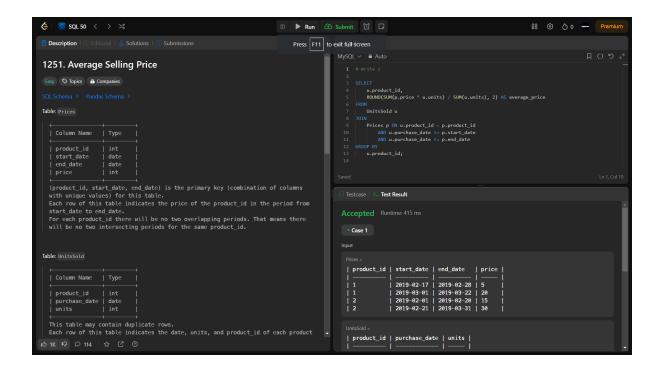
```
# Write your MySQL query statement below
SELECT
    s.user_id,
    IFNULL(CAST(SUM(IF(c.action = 'confirmed', 1, 0)) / COUNT
FROM
    Signups s
LEFT JOIN
    Confirmations c ON s.user_id = c.user_id
GROUP BY
    s.user_id;
```

q14:



```
# Write your MySQL query statement below
select id, movie, description, rating
from Cinema
where id%2 != 0 and description !="boring"
order by rating desc;
```

q15:



```
SELECT
    u.product_id,
    ROUND(SUM(p.price * u.units) / SUM(u.units), 2) AS averag
FROM
    UnitsSold u

JOIN
    Prices p ON u.product_id = p.product_id
        AND u.purchase_date >= p.start_date
        AND u.purchase_date <= p.end_date

GROUP BY
    u.product_id;</pre>
```

Q 16: