

The pharmacist will be able to ...

1. Search for customers that are currently taking a certain drug
 - a. Ex: find the names and usernames of all customers that are taking 'Humira':

WITH

```
r1 as (  
    SELECT *  
    FROM customer,prescribed  
    WHERE customer.username = prescribed.customer_username)
```

```
SELECT r1.name, customer_username  
FROM r1 JOIN drug USING(ndc)  
WHERE drug.name = 'Humira';
```

2. Search for customers that see a certain doctor
 - a. Ex: find the names and usernames of all customers that have seen Dr. Micah Blevins:

WITH

```
r1 as (  
    SELECT *  
    FROM customer,diagnosis  
    WHERE customer.username = diagnosis.customer_username)
```

```
SELECT r1.name  
FROM r1,doctor  
WHERE r1.doctor_username = doctor.username AND doctor.name = 'Micah Blevins'  
GROUP BY r1.name;
```

3. Find all of the drugs that a certain customer has taken
 - a. Ex: find all drugs that Rhia Dillon has taken:

WITH

```
r1 as (  
    SELECT *  
    FROM customer,prescribed  
    WHERE customer.username = prescribed.customer_username)
```

```
SELECT drug.name, drug.ndc  
FROM r1 JOIN drug USING(ndc)  
WHERE r1.name = 'Rhia Dillon';
```

4. Find all of the locations belonging to the chain where the pharmacist works
 - a. Ex: list the addresses of all the locations of the chain where Teresa Crawford works:

```
SELECT address, city, state, zipcode  
FROM pharmacist,location  
WHERE pharmacist.name = 'Teresa Crawford' AND pharmacist.location_stock_id = location.stock_id;
```

5. Take inventory of the pharmacy where they work
 - a. Ex: find all the drugs and their amounts that are in stock at the location where Leopold Cortez works:

WITH

```

r1 as (
    SELECT *
    FROM stock,drug
    WHERE stock.drug_ndc = drug.ndc)
SELECT r1.name, r1.ndc, r1.amount
FROM r1,pharmacist
WHERE pharmacist.name = 'Leopold Cortez' AND pharmacist.location_address = r1.address;

```

The customers will be able to ...

1. View their own medical history
 - a. Search for all diseases that Jordi Holloway has had or currently has
 select disease_name from diagnosis join customer on
 customer_username=username where name = 'Jordi Holloway';
 - b. Search for all diseases that Jordi Holloway with username 'Holloway85' had
 - i. select disease_name from diagnosis join customer on
 customer_username=username where username= 'Holloway85';
2. Search for details of certain drugs
 - a. Search for the side effects of Amoxil:
 select side_effects from drug where name = 'Amoxil';
 - b. Search for dosage of Amoxil:
 select dosage from drug where name = 'Amoxil';
 - c. Show all drugs that can treat HIV:
 select name, disease_name from drug join treats on ndc = drug_ndc
 whedisease_name = 'HIV';
3. Search to see if a certain drug is available at a certain store
 - a. Show a list of stores that carry drug Amoxil
 select stock_id, address from stock join drug on drug_ndc = ndc where
 amount >0 and name = 'Amoxil';
4. Search for doctors that work at a certain hospital
 - a. Show a list of doctors that work at Canton-Potsdam Hospital
 select name from doctor where hospital_name = 'Canton-Potsdam Hospital';
5. Search for doctors with certain specializations
 - a. Show a list of doctors that specialize in Diagnostic radiology
 select name from doctor where specialization = 'Diagnostic radiology';
6. Show all of the customer's own prescriptions
 - a. Show a list of prescriptions that user Sharpe17 has
 select * from prescription where customer_username = 'Sharpe17';
 - b. Show a list of drugs that user Sharpe17 need to take as well as their dosage
 select name, dosage from prescribed natural join drug where
 customer_username = 'Sharpe17';
7. Find closest stores...
 - a. Search for all pharmacies that are in Clinton, NY

```
select stock_id from location where city = 'Clinton' and state = 'NY';
```

The doctors will be able to:

1. View the medical history of their patients
 - a. Show the past diseases or conditions of Jane Doe

```
select name  
from drug natural join prescribed  
where customer_username = 'Dillon79' and doctor_username = 'Murray68' and  
diagnosis_date = '2019-02-05';
```

2. Find where a patient can buy a certain drug.

WITH

```
r1 as(  
    select *  
    from treats  
    where drug_ndc='50090-0308'  
), -- disease_name, ndc
```

```
r2 as(  
    select *  
    from r1 natural join stock  
    where r1.drug_ndc = stock.drug_ndc)
```

```
select *  
from r2;
```