

## CS166 Final Report

### Assumptions

1. No assumptions here since we just have to insert values into the doctor table
  - a. If the doctor id is entered as an empty value or a value that is already in the table then an error is thrown
  - b. Uses execute update
2. No assumptions like in the 1st query
3. Same as first and second query
4. Okay so this problem was a wild ride and I hated it. I attempted to use a if exists then do this statement and the compiler was not having it. But, I think my logic was good.
  - a. User enters a patient - it is either inserted or updated depending on if it exists.
  - b. I assumed that we check to see if the doctor and appointment exist and that the appointment status is AV.
  - c. If that checks to be true then we can insert the patient into the patient database
5. So I assume that we take in doctor ID and a date range from the user.
  - a. We then just check if that doctor has any AV or AC appointments within the date range that the user inputted.
  - b. Honestly, hard to find appointments that were AV or AC but it was testable still
6. This one was even harder to test since finding AV appointments was so rare and I had to check to make sure the date was working
  - a. Connected all of this from department -> doctor -> request maintenance -> has appointment -> appointment
  - b. Kind of a wild query but it works
7. So I assumed that there was no user input for this
  - a. This one was a little too open ended honestly
  - b. I just output the doctors and how many of each appointment they have but I rank this by the largest number of appointments
  - c. For example, Kent Cole has 2 PA appointments and 1 AV appointment so he shows up at the top of the list for the 2 PAs and shows up again in the middle for the 1 AV
8. So this one matches the previous query but in this case we just ask the user to enter the appointment status and output the doctors who have appointments of that status
  - a. Not a hard one really

### Comments

1. I ran into some errors with the date type but got over that reasonably easily

2. I didn't realize there were different types of ways of running the query like executeQuery, executeQueryAndReturnResult or executeUpdate.
3. I don't know some of those queries had me searching for a little for a valid input that would return something (especially query 6)

## Contributions

- We split the work 50/50

## Screenshots

1. Add Doctor

```
[Please make your choice: 1
[   Enter Doctor ID: 250
[   Enter Doctor name: Trevor Gman
[   Enter Doctor specialty: Urologist
[   Enter Doctor Department ID: 3
[   ADDED VALUES
```

a.

2. Add Patient

```
[Please make your choice: 2
[   Enter Patient ID: 250
[   Enter Patient name: Trevvvvz
[   Enter Patient gender: M
[   Enter Patient age: 21
[   Enter Patient address: UCR
[   Enter number of appointments for the Patient: 1
[   ADDED VALUES
```

a.

3. Add Appointment

```
[Please make your choice: 3
[   Enter Appointment ID: 550
[   Enter Appointment month: 7
[   Enter Appointment day: 20
[   Enter Appointment year: 2021
[   Enter Appointment starting time in this format 'hour:minutes' (ie. 8:00 or 14:30): 10:00
[   Enter Appointment ending time in this format 'hour:minutes' (ie. 8:00 or 14:30): 12:30
[   Enter Appointment status: AV
[   ADDED VALUES
```

a.

4. Make an appointment //has error

```
[Please make your choice: 4
[   We will take in the doctor's id: 150
[   Now we will take in the appointment id: 528
[   We will now take in your patient info :)
[   Enter Patient ID: 600
[   Enter Patient name: JP
[   Enter Patient gender: M
[   Enter Patient age: 22
[   Enter Patient address: UCR
[   Enter number of appointments: 1
[   ERROR: syntax error at or near "if"
[   Position: 1
```

a.

5. List appointments of a given doctor

```
Please make your choice: 5
[       Enter Doctor ID: 25
[       Enter a left bound date in this format: month/day/year (3/10/2021 or 11/5/2020): 1/1/2021
[       Enter a right bound date in this format: month/day/year (3/10/2021 or 11/5/2020): 12/12/2021
adate  appt_id
2021-11-09      3
total row(s): 1
```

a.

6. List all available appointments of a given department

```
Please make your choice: 6
[       Enter Department name: Dermatology
[       Enter a date in this format: month/day/year (3/10/2021 or 11/5/2020): 8/16/2021
appt_id
9
```

a.

7. List total number of different types of appointments per doctor in descending order

```
Please make your choice: 7
name      status  count
Yvette Lane      PA      2
Kent Cole        PA      2
Adrian Garrett   PA      2
Rita Brock       PA      2
Phillip Wilson   PA      2
Dwayne Delgado   PA      1
Stephanie Thompson PA      1
Noah Hansen      PA      1
Benjamin Nelson  PA      1
Edwin Lynch      PA      1
Randy Schultz    AC      1
Myrl Aguiar      AV      1
Etta Rosen       AV      1
Billie Carpenter PA      1
Patricia Brady   AC      1
Derek Andrews   WL      1
Dexter Johnson   AC      1
Gertrude Warren  WL      1
Gloria Cox       AC      1
Timothy Jones    PA      1
Theodore Stewart PA      1
Gertrude Warren  PA      1
Randy Bell       PA      1
Kathi Wimberly   AC      1
Mildred James    PA      1
Irvin Kennedy     PA      1
Jacqueline Simmons PA      1
Lona Burchett    PA      1
Gloria Cox       PA      1
Nilsa Cavanaugh  PA      1
Kent Cole        AV      1
Becky Horton     PA      1
Elizabeth Hernandez PA      1
Kelly Bailey     PA      1
Lynn Rose        PA      1
Antoinette Rodriguez PA      1
Clara Rowe       WL      1
Lillie Rogers    PA      1
Paul Harris      AC      1
Larry Russell    PA      1
Tiffany Mills    PA      1
Shaun O'Brien   PA      1
Alvin Saunders   PA      1
Myron Gibson     PA      1
Tiffany Mills    WL      1
Douglas Gonzalez WL      1
Kenny Hall       AV      1
```

a.

Kenneth Rodriguez	AV	1
Clara Rowe	PA	1
Colin Williams	PA	1
Asuncion Looney	PA	1
Dannette Whitley	PA	1
Jonathan Lee	PA	1
Judy Morris	PA	1
Kristopher King	PA	1
Benny Terry	PA	1
Milton Fletcher	PA	1
Norma Smith	PA	1
Adriana Wooden	PA	1
Kevin Roberson	PA	1
Beatrice Myers	WL	1
Jenny Jackson	PA	1
Rita Brock	AC	1
Kirk Ruiz	PA	1
Amy Diaz	AV	1
Rosemary Pena	PA	1
Brian Flores	PA	1
Bradley Holmes	PA	1
Rufus Lloyd	PA	1
Gabriel Taylor	PA	1
Rosemary Pena	WL	1
Ashley Ramirez	PA	1
Joella Estrella	AC	1
Etta Rosen	AC	1
Edgar Copeland	AC	1
Kristy Keller	AC	1
Ruby Hill	PA	1
Rosemary Pena	AC	1
Wayne Robinson	AV	1
Christina Wilson	AV	1
Fredrick Smith	WL	1
Steven Richardson	AV	1
Palmer Peralta	PA	1
Martin Bryant	AC	1
Heather Perez	PA	1
Calvin Morrison	PA	1
Diane Davidson	PA	1
Sophia Fields	AV	1
Olga Guerrero	AC	1
Kim West	WL	1
Josefina Neal	PA	1
Paul Harris	PA	1
Rossana Staton	AV	1
Damon Baldwin	PA	1
Emiko Braun	PA	1
total row(s): 95		

b.

8. Find total number of patients per doctor with a given status

[Please make your choice: 8		
{		
Enter Appointment status: AC		
name	count	
Randy Schultz	1	
Rita Brock	1	
Paul Harris	1	
Martin Bryant	1	
Patricia Brady	1	
Dexter Johnson	1	
Gloria Cox	1	
Olga Guerrero	1	
Joella Estrella	1	
Kathi Wimberly	1	
Etta Rosen	1	
Kristy Keller	1	
Edgar Copeland	1	
Rosemary Pena	1	
total row(s): 14		

a.