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Hospital_DB_Project_CS166 / README.md

IvanBot00 fix typo

History

2 contributors

75 lines (48 sloc)   3.83 KB

Hospital Database Project CS166

Group 22: Jourdon Freeman & Ivan Carrillo
Odd Problems (1, 3, 5, 7): Jourdon Freeman
Even Problems (2, 4, 6, 8): Ivan Carrillo

Problem 1 - Add Doctor

The add doctor function takes in a doctor's name and specialty.

```
Please make your choice: 1
Please enter the doctor's name: Toby Washington
========== Specialties ==========
specialty
Ophthalmologist
Gastroenterologist
Allergist
Oncologist
Otolaryngologist
Neurologist
Cardiologist
gynecologist
Pediatrician
Psychiatrist
Dermatologist
Nutritionist

cardiologist
Urologist
Endocrinologist
Radiologist
==================================
Please enter a specialty: Radiologist
Selected Record: [202, Chanel Dugas, Radiologist, 11]
```

```
========== Hospital List ==========
name
UCLA Medical Center
Cedars-Sinai Medical Center
UCSF Medical Center
Stanford Health Care- Stanford Hospital
Keck Medical Center of USC
===================================
Please enter the hospital name: Stanford
Selected Record: [3, Stanford Health Care- Stanford Hospital]
```

```
========== Department List ==========
name
Cardiology
Finance
Gastroenterology
Obstetrics/Gynecology
Microbiology
Pediatric
Neurology
Oncology
Ophthalmology
Pain Management
Patient Services
Radiology
Rheumatology
Urology
Pharmacy
Otolaryngology
Nutrition
Human Resources
ICU
General Surgery
Psychiatry
Accident and emergency
Dermatology
Allergy and Immunology
===================================
Please enter a departnment name: Radiology
Selected Record: [86]
Inserted Record: [255, Toby Washington, Radiologist, 86]
```

Problem 2 - Add Patient

The add patient function takes in a name, gender, age and address.

```
Please make your choice: 2
Please enter the patient name: James Bond
Please enter the patient's gender M/F: M
Please enter the patient's age: 33
Please enter the patient's address: 123 Spy St.
Inserted Record: [256, James Bond, M, 33, 123 Spy St., null]
```

Error checking is done for the gender and age fields.

```
Please make your choice: 2
Please enter the patient name: Martha Stevens
Please enter the patient's gender M/F: f
Please enter M or F.
Please enter the patient's gender M/F: 12
Please enter M or F.
Please enter the patient's gender M/F: F
Please enter the patient's age: 150
Age must be in range: 0 - 130
Please enter the patient's age: -1
Age must be in range: 0 - 130
Please enter the patient's age: 21
Please enter the patient's address: 12123 Example Rd. Riverside, CA
Inserted Record: [257, Martha Stevens, F, 21, 12123 Example Rd. Riverside, CA, null]
```

The age input must be between 0 and 150.

Problem 3 - Add Appointment

The add appointment functions creates a new available appointment for a doctor.

```
Please make your choice: 3
========== Hospital List ==========
name
UCLA Medical Center
Cedars-Sinai Medical Center
UCSF Medical Center
Stanford Health Care- Stanford Hospital
Keck Medical Center of USC
===================================
Please enter the hospital name: Stanford
Selected Record: [3, Stanford Health Care- Stanford Hospital]
```

```
========== Hospital List ==========
name
UCLA Medical Center
Cedars-Sinai Medical Center
UCSF Medical Center
Stanford Health Care- Stanford Hospital
Keck Medical Center of USC
===================================
Please enter the hospital name: Stanford
Selected Record: [3, Stanford Health Care- Stanford Hospital]
```

```
========== Department List ==========
name
Cardiology
Finance
Gastroenterology
Obstetrics/Gynecology
Microbiology
Pediatric
Neurology
Oncology
Ophthalmology
Pain Management
Patient Services
Radiology
Rheumatology
Urology
Pharmacy
Otolaryngology
Nutrition
Human Resources
ICU
General Surgery
Psychiatry
Accident and emergency
Dermatology
Allergy and Immunology
===================================
Please enter a departnment name: Radiology
Selected Record: [86]
Inserted Record: [255, Toby Washington, Radiologist, 86]
```

Error checking is done for selecting a time slot.

```
========== Time Slot Options ==========
time_slot
10:00-17:00
8:00-10:00
10:00-15:00
8:00-10:30
13:00-15:00
14:00-16:00
8:00-17:00
8:00-10:50
=================================================
Choose a time_slot: 9:00-14:00
Enter one of the listed time slot options
Choose a time_slot: j
Enter one of the listed time slot options
Choose a time_slot: 13:00-15:00
Inserted Record: [553, 2021-09-11, 13:00-15:00, AC]
```

Problem 4 - Make Appointment

The make appointment function lets the user make an appointment from appointments which are available ('AV'). The appointment is then marked as active ('AC').

```
Please make your choice: 4
Please enter the patient ID: 0
========== Hospital List ==========
name
UCLA Medical Center
Cedars-Sinai Medical Center
UCSF Medical Center
Stanford Health Care- Stanford Hospital
Keck Medical Center of USC
==================================
Please enter the hospital name: ucla
Selected Record: [0, UCLA Medical Center]
========== Department List ==========
name
Cardiology
Finance
Gastroenterology
Obstetrics/Gynecology
Microbiology
Pediatric
Neurology
Oncology
Ophthalmology
Pain Management
Patient Services
Radiology
Rheumatology
Urology
Pharmacy
Otolaryngology
Nutrition
Human Resources
ICU
General Surgery
Psychiatry
Accident and emergency
Dermatology
Allergy and Immunology
Endocrinology
==================================
Please enter a departnment name: cardio
Selected Record: [0, Cardiology, 0]
```

```
================== Doctor List ==================
doctor_id        name        name
118      Wayne Robinson  Cardiology
119      Stephanie Thompson      Cardiology
120      Steven Richardson       Cardiology
121      Amy Diaz        Cardiology
122      Harry Ross      Cardiology
123      Lillian Powell  Cardiology
124      Paul Harris     Cardiology
125      Elizabeth Hernandez     Cardiology
126      Mildred James   Cardiology
127      Brian Flores    Cardiology
128      Douglas Gonzalez        Cardiology
129      Mary Brown      Cardiology
130      Gloria Cox      Cardiology
131      Samuel Sanders  Cardiology
132      Louis Johnson   Cardiology
133      Christina King  Cardiology
134      Phillip Wilson  Cardiology
135      Bobby Baker     Cardiology
136      Philip Edwards  Cardiology
137      Christine Mitchell      Cardiology
138      Todd Sanchez    Cardiology
139      Helen Gonzales  Cardiology
140      Timothy Jones   Cardiology
141      Andrea Perry    Cardiology
142      Marie White     Cardiology
```

```
143     Sara Collins    Cardiology
144     Ashley Ramirez  Cardiology
145     Jason Henderson Cardiology
146     Jerry Evans     Cardiology
147     Emily Washington        Cardiology
148     Maria Price     Cardiology
149     Arthur Alexander        Cardiology
150     Judy Morris     Cardiology
====================================
Please enter the doctor ID: 121
========== Available Appointments ==========
appnt_id        adate
21      2021-11-18
============================================
Please enter the appointment ID: 21
Updated Record: [21, 2021-11-18, 10:00-17:00, AC]
Success!
```

No doctors available

Error checking is done when accepting the inputs for names, ids, and appointment numbers. When there are no appointments for the doctors of a specific department, the program will return to the menu.

```
Please make your choice: 4
Please enter the patient ID: 10321
That patient does not exist!
Please enter the patient ID: 100
========== Hospital List ==========
name
UCLA Medical Center
Cedars-Sinai Medical Center
UCSF Medical Center
Stanford Health Care- Stanford Hospital
Keck Medical Center of USC
===================================
Please enter the hospital name: washington
Did not find a hospital with that name.
Please enter the hospital name: usc
Selected Record: [4, Keck Medical Center of USC]
========== Department List ==========
name
Endocrinology
Cardiology
Finance
Gastroenterology
Obstetrics/Gynecology
Microbiology
Pediatric
Neurology
Oncology
Ophthalmology
Pain Management
Patient Services
Radiology
Rheumatology
Urology
Pharmacy
Otolaryngology
Nutrition
Human Resources
ICU
General Surgery
Psychiatry
Accident and emergency
Dermatology
Allergy and Immunology
Endocrinology
=====================================
Please enter a departnment name: mental health
Did not find a department with that name.
Please enter a departnment name: psyc
Selected Record: [120, Psychiatry, 4]
================= Doctor List =================
There are no doctors in this department
```

No appointments available

The program also returns to the main menu when the chosen doctor has no available appointments.

```
===================================
Please enter a departnment name: cardio
Selected Record: [0, Cardiology, 0]
================ Doctor List ================
doctor_id       name       name
118     Wayne Robinson  Cardiology
119     Stephanie Thompson      Cardiology
120     Steven Richardson       Cardiology
121     Amy Diaz        Cardiology
122     Harry Ross      Cardiology
123     Lillian Powell  Cardiology
124     Paul Harris     Cardiology
125     Elizabeth Hernandez     Cardiology
126     Mildred James   Cardiology
127     Brian Flores    Cardiology
128     Douglas Gonzalez        Cardiology
129     Mary Brown      Cardiology
130     Gloria Cox      Cardiology
131     Samuel Sanders  Cardiology
132     Louis Johnson   Cardiology
133     Christina King  Cardiology
134     Phillip Wilson  Cardiology
135     Bobby Baker     Cardiology
136     Philip Edwards  Cardiology
137     Christine Mitchell      Cardiology
138     Todd Sanchez    Cardiology
139     Helen Gonzales  Cardiology
140     Timothy Jones   Cardiology
141     Andrea Perry    Cardiology
142     Marie White     Cardiology
143     Sara Collins    Cardiology
144     Ashley Ramirez  Cardiology
145     Jason Henderson Cardiology
146     Jerry Evans     Cardiology
147     Emily Washington        Cardiology
148     Maria Price     Cardiology
149     Arthur Alexander        Cardiology
150     Judy Morris     Cardiology
===================================
Please enter the doctor ID: 118
========= Available Appointments =========
===================================
This doctor has no appointments available!
```

Problem 5 - List Appointments in a Date Range

The program lists all appointments of a given doctor with a given range of dates.

```
Please make your choice: 5
Please enter the doctor's ID: 255
Selected Record: [255, Toby Washington, Radiologist, 86]
Please enter the first date(MM/DD/YY): 05/01/21
Please enter the second date(MM/DD/YY): 12/12/21
========= Active and Available Appointments =========
doctor_id       name    specialty       appnt_id        status  adate   time_slot
255     Toby Washington Radiologist     552     AC      2021-08-13      13:00-15:00
===================================
```

Problem 6 - List Available Appointments

The program lists all the appointments available for a given doctor.

```
Please make your choice: 6
========== Hospital List ==========
name
UCLA Medical Center
Cedars-Sinai Medical Center
UCSF Medical Center
Stanford Health Care- Stanford Hospital
Keck Medical Center of USC
====================================
Please enter the hospital name: ucla
Selected Record: [0, UCLA Medical Center]
========== Department List ==========
name
Cardiology
Finance
Gastroenterology
Obstetrics/Gynecology
Microbiology
Pediatric
Neurology
Oncology
Ophthalmology
Pain Management
Patient Services
Radiology
Rheumatology
Urology
Pharmacy
Otolaryngology
Nutrition
Human Resources
ICU
General Surgery
Psychiatry
Accident and emergency
Dermatology
Allergy and Immunology
Endocrinology
====================================
Please enter a departnment name: cardio
Selected Record: [0, Cardiology, 0]
========== Available Dates List ==========
adate
2021-09-21
====================================
Please enter the data. MM/DD/YY: 09/21/21
appnt_id       adate    time_slot       status  doctor_id       name    specialty       did    appt_id doctor_id
91      2021-09-21      8:00-10:00      AV      120     Steven Richardson       Cardiologist    0      91      120
```

Problem 7 - List Amount of Different Appointments per doctor

The program list how many different types of appointments every doctor has

```
                            Noah Hansen      1
Please make your choice: 7  Nilsa Cavanaugh 1
name    appointmenttypes    Myron Gibson     1
Yvette Lane      1          Myrl Aguiar      1
Wayne Robinson   1          Milton Fletcher 1
Timothy Jones    1          Mildred James    1
Tiffany Mills    2          Martin Bryant    1
Theodore Stewart        1   Lynn Rose        1
Steven Richardson       1   Lona Burchett    1
Stephanie Thompson      1   Lillie Rogers    1
Sophia Fields    1          Larry Russell    1
Shaun Obrien     1          Kristy Keller    1
Rufus Lloyd      1          Kristopher King 1
Ruby Hill        1          Kirk Ruiz        1
Rossana Staton   1          Kim West         1
Rosemary Pena    3          Kevin Roberson   1
Rita Brock       2          Kent Cole        2
Randy Schultz    1          Kenny Hall       1
Randy Bell       1          Kenneth Rodriguez        1
Phillip Wilson   1          Kelly Bailey     1
Paul Harris      2          Kathi Wimberly   1
Patricia Brady   1          Judy Morris      1
Palmer Peralta   1          Josefina Neal    1
Olga Guerrero    1          Jonathan Lee     1
Norma Smith      1          Joella Estrella 1
Noah Hansen      1          Jenny Jackson    1
```

```
Jacqueline Simmons       1
Irvin Kennedy     1
Heather Perez     1
Gloria Cox        2
Gertrude Warren 2
Gabriel Taylor    1
Fredrick Smith    1
Etta Rosen        2
Emiko Braun       1
Elizabeth Hernandez       1
Edwin Lynch       1
Edgar Copeland  1
Dwayne Delgado  1
Douglas Gonzalez          1
Diane Davidson  1
Dexter Johnson  1
Derek Andrews     1
Dannette Whitley          1
Damon Baldwin     1
Colin Williams  1
Clara Rowe        2
Christina Wilson          1
Calvin Morrison 1
Brian Flores      1
Bradley Holmes  1
Billie Carpenter          1
Benny Terry       1
Benjamin Nelson 1
Becky Horton      1
Beatrice Myers  1
Asuncion Looney 1
Ashley Ramirez  1
Antoinette Rodriguez      1
Amy Diaz          1
Alvin Saunders  1
Adrian Garrett  1
Adriana Wooden  1
```

Problem 8

The program lists the number of appointments a doctor has with a given status.

```
Please make your choice: 8
Please enter the appointment status (PA, AC, AV, WL): PA
name      num_patients
Yvette Lane      2
Adrian Garrett   2
Rita Brock       2
Phillip Wilson   2
Kent Cole        2
Theodore Stewart        1
Bradley Holmes   1
Mildred James    1
Nilsa Cavanaugh  1
Kelly Bailey     1
Elizabeth Hernandez     1
Becky Horton     1
Lona Burchett    1
Damon Baldwin    1
Brian Flores     1
Palmer Peralta   1
Jacqueline Simmons      1
Lynn Rose        1
Shaun Obrien     1
Ruby Hill        1
Gloria Cox       1
Lillie Rogers    1
Asuncion Looney  1
Randy Bell       1
Emiko Braun      1
Judy Morris      1
Milton Fletcher  1
Heather Perez    1
Kristopher King  1
Irvin Kennedy    1
Dwayne Delgado   1
Benny Terry      1
Rufus Lloyd      1
Gertrude Warren  1
Rosemary Pena    1
Larry Russell    1
Colin Williams   1
Edwin Lynch      1
Stephanie Thompson      1
Kevin Roberson   1
Gabriel Taylor   1
Alvin Saunders   1
Josefina Neal    1
Myron Gibson     1
Diane Davidson   1
Jonathan Lee     1
Kirk Ruiz        1
Norma Smith      1
Clara Rowe       1
Ashley Ramirez   1
Benjamin Nelson  1
Adriana Wooden   1
Noah Hansen      1
Tiffany Mills    1
Dannette Whitley        1
Antoinette Rodriguez    1
Billie Carpenter        1
```

The problem checks for a correct input which is one of the four listed.

```
Please make your choice: 8
Please enter the appointment status (PA, AC, AV, WL): fa
Not a valid input!
Please enter the appointment status (PA, AC, AV, WL): AV
name      num_patients
Steven Richardson       1
Kenneth Rodriguez       1
Rossana Staton   1
Myrl Aguiar      1
Kent Cole        1
Christina Wilson        1
Kenny Hall       1
Etta Rosen       1
Sophia Fields    1
```