0: ok

Physicians:

Patients:

Medications:

Interactions:

Prescriptions:

->add\_physician(1,"Hippocrates",generalist)

1: ok

Physicians:

1->[Hippocrates,gn]

Patients:

Medications:

Interactions:

Prescriptions:

->add\_physician(3,"Mayo",specialist)

2: ok

Physicians:

1->[Hippocrates,gn]

3->[Mayo,sp]

Patients:

Medications:

Interactions:

Prescriptions:

->add\_physician(2,"Galen",specialist)

3: ok

Physicians:

1->[Hippocrates,gn]

2->[Galen,sp]

3->[Mayo,sp]

Patients:

Medications:

Interactions:

Prescriptions:

->add\_patient(3,"Dora")

4: ok

Physicians:

1->[Hippocrates,gn]

2->[Galen,sp]

3->[Mayo,sp]

Patients:

3->Dora

Medications:

Interactions:

Prescriptions:

->add\_patient(1,"Phineas")

5: ok

Physicians:

1->[Hippocrates,gn]

2->[Galen,sp]

3->[Mayo,sp]

Patients:

1->Phineas

3->Dora

Medications:

Interactions:

Prescriptions:

->add\_patient(2,"Henry")

6: ok

Physicians:

1->[Hippocrates,gn]

2->[Galen,sp]

3->[Mayo,sp]

Patients:

1->Phineas

2->Henry

3->Dora

Medications:

Interactions:

Prescriptions:

->add\_medication(1,["Wafarin", pill, 1, 6])

7: ok

Physicians:

1->[Hippocrates,gn]

2->[Galen,sp]

3->[Mayo,sp]

Patients:

1->Phineas

2->Henry

3->Dora

Medications:

1->[Wafarin,pl,1.00,6.00]

Interactions:

Prescriptions:

->add\_medication(2,["Sulfamethizole", pill, 200, 500])

8: ok

Physicians:

1->[Hippocrates,gn]

2->[Galen,sp]

3->[Mayo,sp]

Patients:

1->Phineas

2->Henry

3->Dora

Medications:

1->[Wafarin,pl,1.00,6.00]

2->[Sulfamethizole,pl,200.00,500.00]

Interactions:

Prescriptions:

->add\_medication(4,["m4", liquid, 2.5, 9.5])

9: ok

Physicians:

1->[Hippocrates,gn]

2->[Galen,sp]

3->[Mayo,sp]

Patients:

1->Phineas

2->Henry

3->Dora

Medications:

1->[Wafarin,pl,1.00,6.00]

2->[Sulfamethizole,pl,200.00,500.00]

4->[m4,lq,2.50,9.50]

Interactions:

Prescriptions:

->add\_medication(5,["m4", liquid, 10, 25.5])

10: some meaningful error message //medication “m4” already exists in the database

Physicians:

1->[Hippocrates,gn]

2->[Galen,sp]

3->[Mayo,sp]

Patients:

1->Phineas

2->Henry

3->Dora

Medications:

1->[Wafarin,pl,1.00,6.00]

2->[Sulfamethizole,pl,200.00,500.00]

4->[m4,lq,2.50,9.50]

Interactions:

Prescriptions:

->add\_medication(5,["m5", liquid, 7, 16])

11: ok

Physicians:

1->[Hippocrates,gn]

2->[Galen,sp]

3->[Mayo,sp]

Patients:

1->Phineas

2->Henry

3->Dora

Medications:

1->[Wafarin,pl,1.00,6.00]

2->[Sulfamethizole,pl,200.00,500.00]

4->[m4,lq,2.50,9.50]

5->[m5,lq,7.00,16.00]

Interactions:

Prescriptions:

->add\_medication(3,["m3", liquid, 10, 25.5])

12: ok

Physicians:

1->[Hippocrates,gn]

2->[Galen,sp]

3->[Mayo,sp]

Patients:

1->Phineas

2->Henry

3->Dora

Medications:

1->[Wafarin,pl,1.00,6.00]

2->[Sulfamethizole,pl,200.00,500.00]

3->[m3,lq,10.00,25.50]

4->[m4,lq,2.50,9.50]

5->[m5,lq,7.00,16.00]

Interactions:

Prescriptions:

->add\_interaction(1,2)

13: ok

Physicians:

1->[Hippocrates,gn]

2->[Galen,sp]

3->[Mayo,sp]

Patients:

1->Phineas

2->Henry

3->Dora

Medications:

1->[Wafarin,pl,1.00,6.00]

2->[Sulfamethizole,pl,200.00,500.00]

3->[m3,lq,10.00,25.50]

4->[m4,lq,2.50,9.50]

5->[m5,lq,7.00,16.00]

Interactions:

[Sulfamethizole,pl,2]->[Wafarin,pl,1] // Explain this interaction. Ordered pair or set?

Prescriptions:

->add\_interaction(2,1) // how is this wrong?

14: some meaningful error message //An interaction(1, 2) already exists

Physicians:

1->[Hippocrates,gn]

2->[Galen,sp]

3->[Mayo,sp]

Patients:

1->Phineas

2->Henry

3->Dora

Medications:

1->[Wafarin,pl,1.00,6.00]

2->[Sulfamethizole,pl,200.00,500.00]

3->[m3,lq,10.00,25.50]

4->[m4,lq,2.50,9.50]

5->[m5,lq,7.00,16.00]

Interactions:

[Sulfamethizole,pl,2]->[Wafarin,pl,1]

Prescriptions:

->add\_interaction(1,2)

15: some meaningful error message // This interaction already exists in the database

Physicians:

1->[Hippocrates,gn]

2->[Galen,sp]

3->[Mayo,sp]

Patients:

1->Phineas

2->Henry

3->Dora

Medications:

1->[Wafarin,pl,1.00,6.00]

2->[Sulfamethizole,pl,200.00,500.00]

3->[m3,lq,10.00,25.50]

4->[m4,lq,2.50,9.50]

5->[m5,lq,7.00,16.00]

Interactions:

[Sulfamethizole,pl,2]->[Wafarin,pl,1]

Prescriptions:

->add\_interaction(5,3)

16: ok

Physicians:

1->[Hippocrates,gn]

2->[Galen,sp]

3->[Mayo,sp]

Patients:

1->Phineas

2->Henry

3->Dora

Medications:

1->[Wafarin,pl,1.00,6.00]

2->[Sulfamethizole,pl,200.00,500.00]

3->[m3,lq,10.00,25.50]

4->[m4,lq,2.50,9.50]

5->[m5,lq,7.00,16.00]

Interactions:

[Sulfamethizole,pl,2]->[Wafarin,pl,1]

[m3,lq,3]->[m5,lq,5]

Prescriptions:

->new\_prescription(1,2,3)

17: ok

Physicians:

1->[Hippocrates,gn]

2->[Galen,sp]

3->[Mayo,sp]

Patients:

1->Phineas

2->Henry

3->Dora

Medications:

1->[Wafarin,pl,1.00,6.00]

2->[Sulfamethizole,pl,200.00,500.00]

3->[m3,lq,10.00,25.50]

4->[m4,lq,2.50,9.50]

5->[m5,lq,7.00,16.00]

Interactions:

[Sulfamethizole,pl,2]->[Wafarin,pl,1]

[m3,lq,3]->[m5,lq,5]

Prescriptions:

1->[1,2,3,()]

->dpr\_q

18: ok

There are no dangerous prescriptions

->add\_medicine(1,1,5.5) //What is this?

19: ok

Physicians:

1->[Hippocrates,gn]

2->[Galen,sp]

3->[Mayo,sp]

Patients:

1->Phineas

2->Henry

3->Dora

Medications:

1->[Wafarin,pl,1.00,6.00]

2->[Sulfamethizole,pl,200.00,500.00]

3->[m3,lq,10.00,25.50]

4->[m4,lq,2.50,9.50]

5->[m5,lq,7.00,16.00]

Interactions:

[Sulfamethizole,pl,2]->[Wafarin,pl,1]

[m3,lq,3]->[m5,lq,5]

Prescriptions:

1->[1,2,3,(1->5.50)]

->add\_medicine(1,2,300.5)

20: ok

Physicians:

1->[Hippocrates,gn]

2->[Galen,sp]

3->[Mayo,sp]

Patients:

1->Phineas

2->Henry

3->Dora

Medications:

1->[Wafarin,pl,1.00,6.00]

2->[Sulfamethizole,pl,200.00,500.00]

3->[m3,lq,10.00,25.50]

4->[m4,lq,2.50,9.50]

5->[m5,lq,7.00,16.00]

Interactions:

[Sulfamethizole,pl,2]->[Wafarin,pl,1]

[m3,lq,3]->[m5,lq,5]

Prescriptions:

1->[1,2,3,(1->5.50,2->300.50)]

->add\_medicine(1,3,12.5)

21: ok

Physicians:

1->[Hippocrates,gn]

2->[Galen,sp]

3->[Mayo,sp]

Patients:

1->Phineas

2->Henry

3->Dora

Medications:

1->[Wafarin,pl,1.00,6.00]

2->[Sulfamethizole,pl,200.00,500.00]

3->[m3,lq,10.00,25.50]

4->[m4,lq,2.50,9.50]

5->[m5,lq,7.00,16.00]

Interactions:

[Sulfamethizole,pl,2]->[Wafarin,pl,1]

[m3,lq,3]->[m5,lq,5]

Prescriptions:

1->[1,2,3,(1->5.50,2->300.50,3->12.50)]

->dpr\_q

22: ok

There are dangerous prescriptions:

(Dora,3)->{ [Sulfamethizole,pl,2]->[Wafarin,pl,1] }

->new\_prescription(3,2,1)

23: ok

Physicians:

1->[Hippocrates,gn]

2->[Galen,sp]

3->[Mayo,sp]

Patients:

1->Phineas

2->Henry

3->Dora

Medications:

1->[Wafarin,pl,1.00,6.00]

2->[Sulfamethizole,pl,200.00,500.00]

3->[m3,lq,10.00,25.50]

4->[m4,lq,2.50,9.50]

5->[m5,lq,7.00,16.00]

Interactions:

[Sulfamethizole,pl,2]->[Wafarin,pl,1]

[m3,lq,3]->[m5,lq,5]

Prescriptions:

1->[1,2,3,(1->5.50,2->300.50,3->12.50)]

3->[3,2,1,()]

->add\_medicine(3,2,300.5)

24: ok

Physicians:

1->[Hippocrates,gn]

2->[Galen,sp]

3->[Mayo,sp]

Patients:

1->Phineas

2->Henry

3->Dora

Medications:

1->[Wafarin,pl,1.00,6.00]

2->[Sulfamethizole,pl,200.00,500.00]

3->[m3,lq,10.00,25.50]

4->[m4,lq,2.50,9.50]

5->[m5,lq,7.00,16.00]

Interactions:

[Sulfamethizole,pl,2]->[Wafarin,pl,1]

[m3,lq,3]->[m5,lq,5]

Prescriptions:

1->[1,2,3,(1->5.50,2->300.50,3->12.50)]

3->[3,2,1,(2->300.50)]

->add\_medicine(3,3,12.5)

25: ok

Physicians:

1->[Hippocrates,gn]

2->[Galen,sp]

3->[Mayo,sp]

Patients:

1->Phineas

2->Henry

3->Dora

Medications:

1->[Wafarin,pl,1.00,6.00]

2->[Sulfamethizole,pl,200.00,500.00]

3->[m3,lq,10.00,25.50]

4->[m4,lq,2.50,9.50]

5->[m5,lq,7.00,16.00]

Interactions:

[Sulfamethizole,pl,2]->[Wafarin,pl,1]

[m3,lq,3]->[m5,lq,5]

Prescriptions:

1->[1,2,3,(1->5.50,2->300.50,3->12.50)]

3->[3,2,1,(2->300.50,3->12.50)]

->add\_medicine(3,5,12.5)

26: ok

Physicians:

1->[Hippocrates,gn]

2->[Galen,sp]

3->[Mayo,sp]

Patients:

1->Phineas

2->Henry

3->Dora

Medications:

1->[Wafarin,pl,1.00,6.00]

2->[Sulfamethizole,pl,200.00,500.00]

3->[m3,lq,10.00,25.50]

4->[m4,lq,2.50,9.50]

5->[m5,lq,7.00,16.00]

Interactions:

[Sulfamethizole,pl,2]->[Wafarin,pl,1]

[m3,lq,3]->[m5,lq,5]

Prescriptions:

1->[1,2,3,(1->5.50,2->300.50,3->12.50)]

3->[3,2,1,(2->300.50,3->12.50,5->12.50)]

->prescriptions\_q(2)

27: ok

Output: medication is Sulfamethizole

1->Phineas

3->Dora

->dpr\_q

28: ok

There are dangerous prescriptions:

(Dora,3)->{ [Sulfamethizole,pl,2]->[Wafarin,pl,1] }

(Phineas,1)->{ [m3,lq,3]->[m5,lq,5] }

->remove\_medicine(3,5)

29: ok

Physicians:

1->[Hippocrates,gn]

2->[Galen,sp]

3->[Mayo,sp]

Patients:

1->Phineas

2->Henry

3->Dora

Medications:

1->[Wafarin,pl,1.00,6.00]

2->[Sulfamethizole,pl,200.00,500.00]

3->[m3,lq,10.00,25.50]

4->[m4,lq,2.50,9.50]

5->[m5,lq,7.00,16.00]

Interactions:

[Sulfamethizole,pl,2]->[Wafarin,pl,1]

[m3,lq,3]->[m5,lq,5]

Prescriptions:

1->[1,2,3,(1->5.50,2->300.50,3->12.50)]

3->[3,2,1,(2->300.50,3->12.50)]

->dpr\_q

30: ok

There are dangerous prescriptions:

(Dora,3)->{ [Sulfamethizole,pl,2]->[Wafarin,pl,1] }