

## Quiz 6

The three tables below are a representation of a database for a health clinic. The last table, 'Appointment', contains foreign keys referencing the Physician and Patient tables. Examine the tables and answer the questions below.

Physician

ID*	First	Last	Specialty
1	Ann	Arnold	general
2	Bob	Banner	cardiology
3	Carl	Chan	allergy
4	Denise	Duran	general
5	Elle	Encino	endocrinology

Patient

ID*	First	Last	Birthdate	Phone
1	Felipe	Fordham	1982-06-28	718 555 1234
2	Giada	Gordita	1954-10-27	212 555 1235
3	Harry	Howser	1983-07-30	614 555 1236
4	Inigo	Innis	1994-09-02	201 555 1237
5	Jana	Janoski	1953-08-25	212 555 1238
6	Katie	Kolata	1975-02-18	718 555 1239

Appointment – first two columns are foreign keys

PatientID↑ (ref. Patient)	PhysicianID↑ (ref. Physician)	Date	Time
1	3	2015-12-15	10:30
1	4	2015-12-18	15:30
2	2	2015-12-11	11:15
3	5	2015-12-15	14:00
4	1	2015-12-16	10:00
4	2	2015-12-15	10:00
5	5	2015-12-15	10:30
6	4	2015-12-18	15:30

- Who is the youngest patient in the database? \_\_\_\_\_
- Name all the physicians that Inigo Innis is seeing? \_\_\_\_\_
- On what date(s) and time(s) does Katie Kolata have an appointment?  
\_\_\_\_\_
- Name any physicians or patients that have overlapping (conflicting) appointments.  
\_\_\_\_\_
- A new patient, Liam Lin (born June 11th, 1994), just made an appointment with Dr. Carl Chan on May 7th at 4:15 PM. Add that information to the appropriate tables above.

Below is a game tree in which player X is deciding which move to make: a, b, or c. The scores across the bottom are the relative value of that game state for player X. Use the *minimax* algorithm to propagate the scores and **determine the best move** for player X.

