

Patient - (p\_id, p\_name, p\_dob)  
Hospital - (h\_id, h\_name, h\_addr)  
Doctor - (d\_id, d\_name, d\_specialty)

p\_id → d\_id

d\_id → h\_id

Therefore:

h\_id → (h\_name, h\_addr)

d\_id → (d\_name, d\_specialty, h\_id)

p\_id → (p\_name, p\_dob, d\_id)

Start:

(p\_id, p\_name, p\_dob, d\_id, d\_name, d\_specialty, h\_id, h\_name, h\_addr)

**First iter:**

h\_id → (h\_name, h\_addr)

(h\_id, h\_name, h\_addr)

(p\_id, p\_name, p\_dob, d\_id, d\_name, d\_specialty, h\_id)

**Second iter:**

d\_id → (d\_name, d\_specialty, h\_id)

(h\_id, h\_name, h\_addr)

(d\_id, d\_name, d\_specialty, h\_id)

(p\_id, p\_name, p\_dob, d\_id)

**Third iter:**

p\_id → (p\_name, p\_dob, d\_id)

(h\_id, h\_name, h\_addr)

(d\_id, d\_name, d\_specialty, h\_id)

(p\_id, p\_name, p\_dob, d\_id)