```
1) patients with insomnia who haven't visited a doctor this year
   (
        Diagnosing
        Diagnosis (name="Insomnia") <id→diagnosis>
     ) [patient id]
     Examination (examination date>='2020-01-01') [patient id]
  Patient[patient id, patient name]
2) names of doctors who at least once examined in the room 323
     Examination (examination room=323)
     [doctor=employee id]
     Employee
  ) [employee name]
3) doctors who diagnosed all diagnoses of group D
  Diagnosing[doctor, diagnosis]
  Diagnosis (group="D") <id→diagnosis>[diagnosis]
4) currently available rooms in which patient with id 100 has never
  stayed
   (
        Patient[patient id] (patient id=100)
        Room[block, number] (available=True)
     Stay[patient id, block, number]
  )[block, number]
5) list of doctors and departments they head
  Doctor<employee id→id>[id]
  Department<name→department, head→id>[id, department]
```