
Lab Sheet 04

Consider the following schema.

1. Physician (eid, ename, position)
2. Department (did, name, head)

Foreign key (head) references Physician (eid)

3. Works_in (physician, department)

Foreign key (physician) references Physician (eid)

Foreign key (department) references Department (did)

4. Patient (pid, name, address, phone, insuranceId)
5. Appointments (appointmentId, patient, physician, startTime, endTime, room)

Foreign key (physician) references Physician (eid)

Foreign key (patient) references Patient (pid)

6. Drugs (Code, name, brand)
7. Prescribes (physician, patient, drug, date, appointment, dose)

Foreign key (physician) references Physician (eid)

Foreign key (patient) references Patient (pid)

Foreign key (drug) references Drugs (Code)

Answer the following questions with reference to the schema below. Use the given data set and check the correctness of the queries you have written in SQL Server

1. For all the departments, display department name and the name of the physician heading the department.

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2. Find the full name of the physicians whose first name is 'John'.

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3. Find the patients who are not insured.

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4. Find the names of the physicians who does not head any department

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5. For each department display the department id and the number of physicians that work in each department.

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6. For each physician display the physician name and the number of appointment he/she had in year 2015.

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7. Find the names of the patients who had more than two appointments.

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8. Find the drug which is prescribed the most.

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9. Find the patients who had appointments with the same physicians whom 'Grace Ritchie' had appointments with.

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10. Create a view which contains the names of the physicians in each department.

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