DATABASE MANAGEMENT FOR A DENTIST’S POLYCLINIC

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A Dentists’ Polyclinic has various dental departments such as General Dentistry, Periodontist and Endodontist. The patients can go to all these Departments. The Doctor’s work from Monday to Saturday, 6 hours each day. The patients can be of two types, a regular patient and a new patient. A patient who has been coming for 10 years or more gets a 10% discount (regular patient) . A new patient gets the first check-up free. The patients’ medical history such as heart problems, allergies, other illnesses are stored within the database so that the doctor can give a treatment accordingly. A patient can come to the polyclinic with a dependent.

The project includes:

Components of Database Design

ER Diagram

Schema

Normalization

Procedure Functions

SQL Queries

Database Management for a Dentist’s Polyclinic

1) The Polyclinic has the following details stored:

a) Name of the Polyclinic(Primary key)

b) Address

c) Timings (Hours)

d) Phone Number

2) For the Doctors in this Polyclinic, the following details are saved:

a) Name

b) Department Number

c) Department Id

d) Doctor Id (Primary key)

e) Salary Slip Number

f) Salary

g) Phone Number

3) The polyclinic has many types of doctors depending on the dental departments.

1. General dentistry: Cavities, Missing Teeth, Mobile Teeth
2. Endodontist: Rootcanals
3. Periodontist: Gums

4) On Mon-Sat the doctors work.

5) A patient coming can be of two types, a new patient and a regular patient. A regular patient’s history is accessible.

6) The doctors work for 6 hours on any given day.

7) The appointments are given according to the above timings.

8) A patient has the following details saved

a) Name

b) Patient ID (Primary Key)

c) Last date of visit

d) Date of Birth

e) Previous Treatment

9) The Medical history is also saved:

a) Allergies

b) Heart Problems

c) Pain in any tooth/teeth

d) Past Treatments (Discriminator)

e) Other Illnesses

10) Every new patient is assigned a new patient ID , his name and date is saved. The first check-up for the patient is free.

11) Patients that have been coming for the last 10 years, get a 10% discount.

12) Each patient can give the details of one dependents and the following details of the dependents are saved:

a) Name (Discriminator)

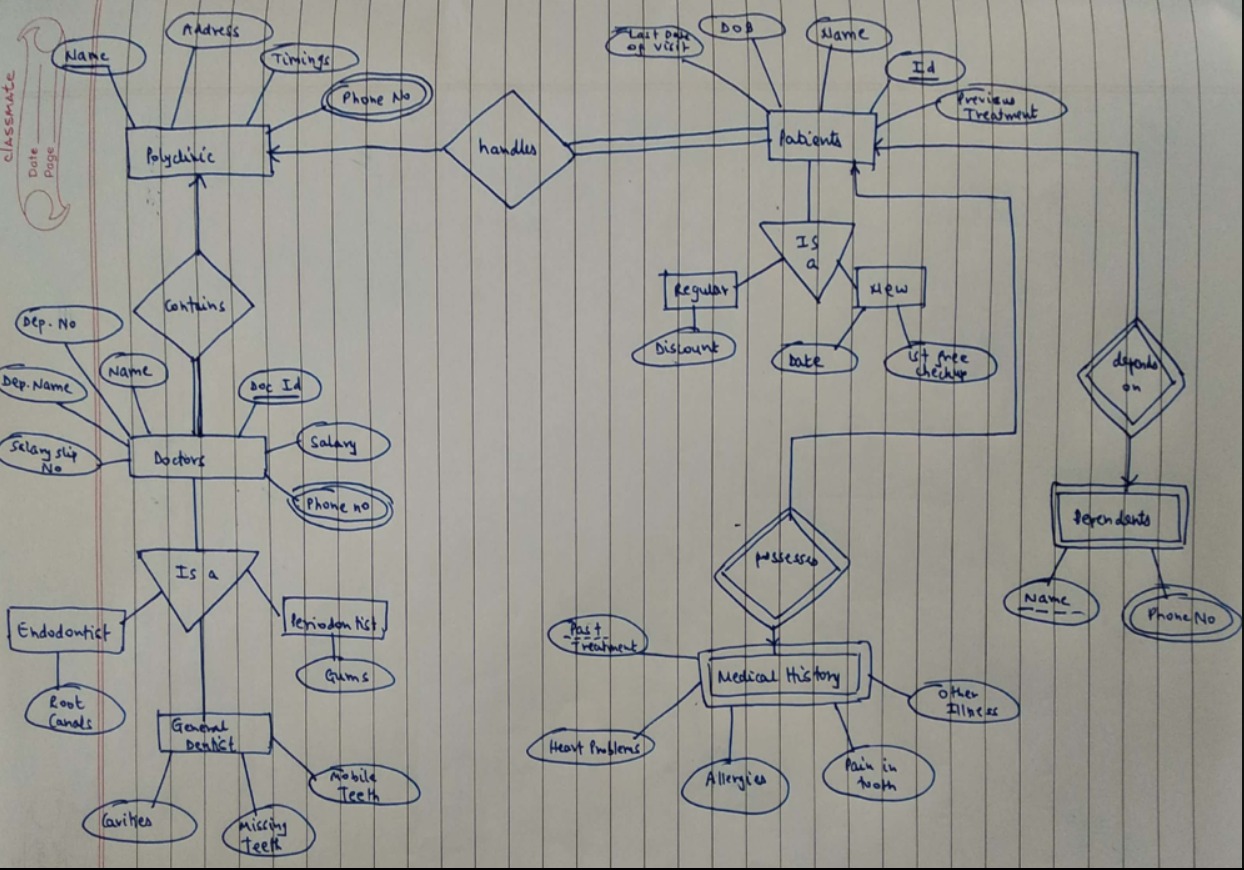
b) Phone number

13) Each patient can go to multiple departments in this polyclinic.

In the Database for a Dentists’ Polyclinic, the entities are Polyclinic, Doctors, Patients. Endodontist, Periodontist and General Dentist are entities of the form of non-disjoint specialization. Regular Patient and New Patient also are entities of the form of non-disjoint specialization.

In the Database for a Dentists’ Polyclinic, Medical History and Dependents are weak entities.

**ERD DIAGRAM:**



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