



Computer Science Department

Database Management Systems 333

PHASE 3

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Dental Clinic Database Description and Data Dictionary

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Database: Dental_Clinic

Purpose: To store and manage information related to a dental clinic, including doctors, patients, appointments, prescriptions, medicines, and payments.

Tables:

Doctors: Stores information about doctors, including their ID, name, age, address, phone number, and email address.

Patients: Stores information about patients, including their ID, name, age, and phone number.

Prescriptions: Stores information about prescriptions issued to patients, including the ID, release date, category, patient information, doctor information, and a reference to the doctor's ID.

Medicines: Stores information about medicines, including their ID, name, source (manufacturer), expiry date, and production date.

Payments: Stores information about patient payments, including the ID, payment method, date, amount, and a reference to the patient's ID.

Appointments: Stores information about patient appointments, including the ID, start time, end time, date, and a reference to the patient's ID.

Prescription Medicines: A many-to-many relationship table linking prescriptions and medicines. Each prescription can have multiple medicines, and each medicine can be included in multiple prescriptions.

Doctor Patient: Another many-to-many relationship table linking doctors and patients. Each doctor can have multiple patients, and each patient can see multiple doctors.

Table	Field	Data Type	Description	Foreign Keys
Doctors	id	INT	Unique identifier for the doctor	
	name	VARCHAR(25)	Doctor's name	
	age	INT	Doctor's age	
	address	VARCHAR(25)	Doctor's address	
	phone	VARCHAR(15)	Doctor's phone number	
	email	VARCHAR(50)	Doctor's email address	
Patients	id	INT	Unique identifier for the patient	
	name	VARCHAR(25)	Patient's name	
	age	INT	Patient's age	
	phone	VARCHAR(15)	Patient's phone number	
Prescriptions	id	INT	Unique identifier for the prescription	
	release_date	DATE	Date the prescription was issued	
	category	VARCHAR(25)	"Category of the medication (e.g., General, Dental)"	
	patient_name	VARCHAR(25)	Patient's name	
	patient_age	INT	Patient's age at the time of prescription	
	doctor_name	VARCHAR(25)	Doctor who issued the prescription	
	Doctor_id	INT	Reference to the doctor's ID (foreign key)	Doctors(id)
Medicines	id	INT	Unique identifier for the medicine	
	name	VARCHAR(25)	Name of the medicine	
	source	VARCHAR(25)	Manufacturer or supplier of the medicine	

	expiry_date	DATE	Date the medicine expires	
	production_date	DATE	Date the medicine was produced	
Payments	id	INT	Unique identifier for the payment	
	method	VARCHAR(25)	"Payment method used (e.g., Cash, Credit Card)"	
	date	DATE	Date the payment was made	
	amount	REAL	Amount of the payment	
	patient_id	INT	Reference to the patient's ID (foreign key)	Patients(id)
Appointments	id	INT	Unique identifier for the appointment	
	start_time	TIME	Time the appointment starts	
	end_time	TIME	Time the appointment ends	
	date	DATE	Date of the appointment	
	patient_id	INT	Reference to the patient's ID	Patients(id)
Prescription_Medicines	Prescription_id	INT	Reference to the prescription's ID	Prescriptions(id)
	Medicine_id	INT	Reference to the medicine's ID	Medicines(id)
Doctor_Patient	Doctor_id	INT	Reference to the doctor's ID	Doctors(id)
	Patient_id	INT	Reference to the patient's ID	Patients(id)