Project: E/R modeling of domain

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***Description:***

Assume that we want to set up a simple system help patients to make an appointment with doctors at Wake Forest Baptist Medical Center in Winston-Salem.

Each doctor in the hospital must have a unique stuff number, name (both first and last), sex and cannot be made an appointment with at the same time a day. We assume that each doctor can handle one or more types of conditions from dermatopathya, flu, diabetes and toothache.

Patient must register in this system first then they can make an appointment with a doctor. They are asked to provide their names, sex, age and then will be given a unique patient number.

Depending on the patients’ different situations and preferences, they will choose to make an appointment with a doctor and select a consulting room they like. Based on each condition, each appointment will be assigned a consulting room by the patient with corresponding medical equipment in it. We assume all the consulting rooms for one kind of condition are the same.

The appointments must contain date, time, consulting room number, the patient number and the staff number.

If a doctor leaves the hospital, all records and appointments should be removed as well. If a doctor already has an appointment or a consulting room is occupied at some time, the corresponding information should be removed temperately.

***Queries:***

List all the doctors in the hospital.

List all the doctors’ names who can heal diabetes.

List all the consulting rooms that are for dentist.

How many appointments are there in February?

What’s the most many type of condition do the patients have in the season?

List all the male doctors’ names who can heal dermatopathya available on Friday (2012-XX-XX) afternoon.

List all the consulting room available on Monday (2012-XX-XX) morning.

Who is the most popular dentist in the hospital?