**University Hospital Management System**

**Team ID: 15**

**Members:**

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**Tables:**

* **User**
  + **Description: Is a parent table that has the basic information of any user of the system.**
  + **PK: ID.**
* **Doctor**
  + **Description: Is a user, has the information of the doctor.**
  + **PK: ID.**
  + **FK: ID from (User table).**
* **Patient** 
  + **Description: Is a user, the table has the information of the patient.**
  + **PK: ID.**
  + **FK: ID from (User table).**
* **Appointment**
  + **Description: The reservation that the patient makes, it has the date and room number information.**
  + **PK: ID.**
  + **FK: Doctor\_ID from (Doctor table), Patient\_ID from (Patient table).**
* **Prescription** 
  + **Description: The medicine that the Doctor will give it to the Patient with specific dosage.**
  + **PK: Appointment\_ID , Med\_ID (Composite key).**
  + **FK: Appointment\_ID from (Appointment table) , Med\_ID from (Medicine table)**
* **Medicine**
  + **Description: Has the name and the information about the medicine including side effects, chemical info...etc.**
  + **PK: Med\_ID.**
* **Patient Exam**
  + **Description: The result of the examination that the patient made.**
  + **PK:ID.**
  + **FK: Exam\_ID from (Medical\_Exam table) ,Patient \_ID from (Patient table).**
* **Medical Exam**
  + **Description: Has the name and normal range of a specific examination.**
  + **PK:ID.**
* **Patient Disease**
  + **Description: The diagnoses of the patient.**
  + **PK: Patient\_ID, Disease\_ID (Composite key).**
  + **FK: Patient\_ID from (Patient table), Disease\_ID from (Disease table).**
* **Disease**
  + **Description: The name and the information about every disease including syndromes and chronic.**
  + **PK: ID.**

**Relations:**

* **1 to 1**
  + **Patient is a user**
  + **Doctor is a user**
* **1 to M**
  + **Each doctor can have many appointments.**
  + **Each patient can have many appointments.**
* **M to N**
  + **Each patient can have many medical examinations and each medical examination can have many patients (Patient\_Exam table ).**
  + **Each patient can have many diseases and each disease can have many patients(Patient\_Disease table).**
  + **Each appointment can have many medicines and each medicine can appear in many appointments(Medicine table).**