

Computer Science Department

Database Systems 333

***Abstract:***

My name is Neda’ Al Jarab’a and my partner’s name is Hedaya Garaba , we would like to show you our project which is about the database of khaled al Jirahy’s hospital. This database contains the whole data of the hospital’s system.

our customer is a well- known hospital at Ramallah with a good reputation and services.

We will present our project by using MYSQL and NETBEANS programs.

**Introduction:**

Our customer’s information are :

Phone & fax no.:022955640

e-mail address:Khalid\_hospital@yahoo.com

jawwal no.:0599237885

our customer which is specialist in general surgery and women’s surgery offers medical services such as emergency services and women’s caesarean section, pharmacy and laboratories services, medicines and medical advice also sleep at night to control patients. ofcourse to get one of these survices you have to pay money for .

we would like to help the hospital in some ways: like sorting and storing different types of data, managing it’s system, scheduling it’s functions and areas ,also any other thing it needs.

**Data Requirements:**

We will show the structure of the hospital [doctors, nurses, other employees, departments ,medicines ,suppliers ,rooms, patients & any other related data].

* The hospital has many departments such as emergency departments ,nursing , and surgery department like women’s caesarean section .
* Departments have a department no,department name .
* Each department has many rooms.
* Each room accommodate a certain number of patients .
* Each doctor is responsible for the department of his specialty   
  for example, the general sugery specialist is responsible for the general surgery department and the children specialist is responsible for children section and so on.
* Patients are identified by ssn,and their names,addresses and ages must be recorded.
* Doctors/specialists are identified by an ssn,name,specialty for each doctor.
* There is just a one pharmacy which has name and room no.
* Nurses are identified by ssn,names,addresses ,and when their shifts will be at night or the day.
* Each doctor is responsible for number of nurses that associated with his specialty.
* Each nurses is responsible for at least one patient.
* Doctors prscribe medicine for patients. A doctor could prescribe one or more medicine for several patients,and could obtain prescriptions from several doctors.each prescription has a date and a quantity associated with it.
* There are many supplier companies for the hospital like noval company ,medic company,al waleed company …etc ,that supplies it by required machines and equipments and supplies its pharmacy by needed medicines.
* The hospital has three laborites ,and any doctor can prescribes a medical examination for his patient who can make it there,also the patients can buy their required medicines from the pharmacy of the hospital.

**Technology:**our project will be presented by using java language and MYSQL ,NETBEANS programs…our operating system is windows 7.

**ER-DIAGRAM:**



In the ERD we noticed that:

\*each patient should have a room & the room can have many patients.

\*the doctor persecripe on or more medicine to the patient or more, also the patient can have a lot of persecription from more than a doctor.

\*also patient should take medical examination in more than a lab in the hospital.

\*we noticed a weak entity between the supplier and the medicin.

\*here ,each doctor is responsiple of one department, and many nurces work in one department under a responsiple dectore guidness.