

DATABASE DESIGN ASSIGNMENT

Naima Ashraf

1. DESCRIPTION OF THE DATABASE

The database aims to provide a Hospital Management System. It is supposed to store important information/data needed. This includes, personal data of the patients, like name, address, diagnosed diseases or treatments (e. g. medications prescribed). Moreover, Doctors and other hospital staff are recorded on the system as well as departments and rooms for specific treatment (e. g. Operation theatre, consultation etc.) or admission (e. g. Ward). Finally, the option for creating bills depending on the length of the hospital stay should be provided.

2. ENTITIES AND THEIR ATTRIBUTES

PATIENT				
Attribute	Type	Primary Key	Foreign Key	Nullable
NhsNo	int	X		
History	varchar			X
Address	varchar			
PhoneNo	int			
Disease	varchar			X
Treatment	varchar			X
FirstName	varchar			
LastName	varchar			
DOB	date			

DOCTOR				
Attribute	Type	Primary Key	Foreign Key	Nullable
ID	int	X		
Specialisation	varchar			
PhoneNo	int			

STAFF				
<i>Attribute</i>	<i>Type</i>	<i>Primary Key</i>	<i>Foreign Key</i>	<i>Nullable</i>
ID	int	X		
DOB	date			
Type	varchar			
FirstName	varchar			
LastName	varchar			

DEPARTMENT_STAFF				
<i>Attribute</i>	<i>Type</i>	<i>Primary Key</i>	<i>Foreign Key</i>	<i>Nullable</i>
DepartmentStaffID	int	X		
Shift	time			X

DEPARTMENT				
<i>Attribute</i>	<i>Type</i>	<i>Primary Key</i>	<i>Foreign Key</i>	<i>Nullable</i>
ID	varchar	X		
Type	varchar			
Location	varchar			
PhoneNo	int			X

HOSPITAL				
<i>Attribute</i>	<i>Type</i>	<i>Primary Key</i>	<i>Foreign Key</i>	<i>Nullable</i>
ID	varchar	X		
Address	varchar			
PhoneNo	int			

ROOM				
<i>Attribute</i>	<i>Type</i>	<i>Primary Key</i>	<i>Foreign Key</i>	<i>Nullable</i>
ID	int	X		
RoomType	varchar			
Capacity	int			X
Location	varchar		X	

PATIENT_ROOM				
Attribute	Type	Primary Key	Foreign Key	Nullable
PatientRoomID	int	X		
StayInDays	int			X
PatientNhsNo	Int		X	

BILL				
Attribute	Type	Primary Key	Foreign Key	Nullable
BillNo	int	X		
LengthOfStay	int			X
PatientNhsNo	int		X	
PatientName	vchar		X	

3. ENTITY RELATIONSHIP DIAGRAM

