



University of  
Management *and*  
Technology

## **Database** **Project**

# **Hospital Management System**

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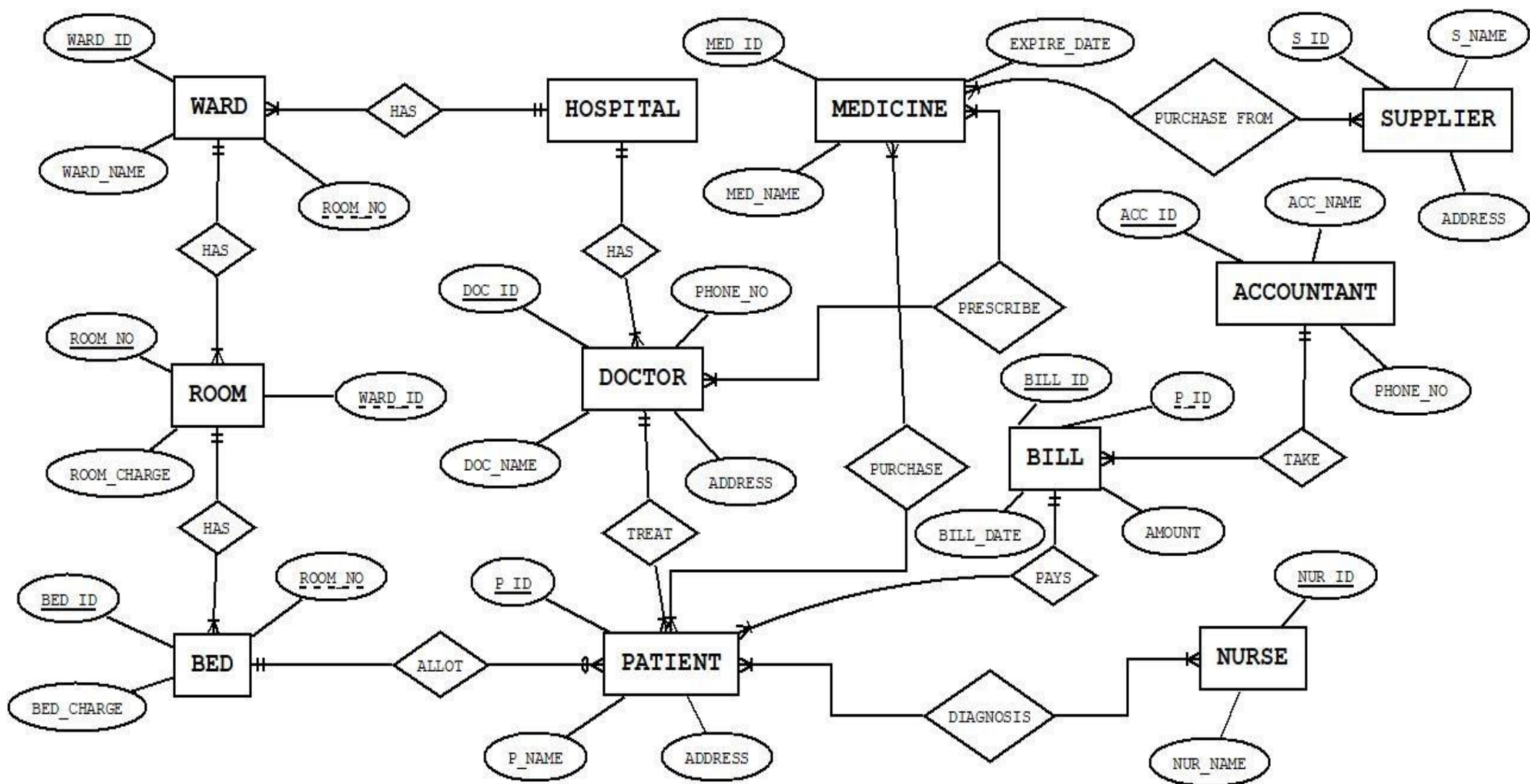
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# Project

## Hospital Management System



**Fig. – Entity Relationship Diagram (ERD) for Hospital Management System**

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# DATA DICTIONARY AND RELATIONAL MODEL

Table 1 – WARD

Field Name	DESCRIPTION	Data Type	Data Size	Condition	Example
WARD_ID	Ward number unique	Integer	6	Primary Key	12345
WARD_NAME	Ward name	Varchar2	200		Cardiac
ROOM_NO	Room details	Varchar2	200	Foreign key	1s-20

WARD_ID	WARD_NAME	ROOM_NO
1	CARDIOLOGY	1S-1
2	NEUROLOGY	1S-2
3	ONCOLOGY	1S-3
4	EMERGENCY	1S-4
5	MATERNITY	1S-5

Table 2 – ROOM

Field Name	DESCRIPTION	Data Type	Data Size	Condition	Example
ROOM_NO	Room number	Varchar2	200	Primary Key	1N-23
ROOM_CHARGE	ROOM CHARGES	Varchar2	200		Rs .5000
WARD_ID	WARD DETAILS	Varchar2	200	Foreign key	12345

ROOM_N0	ROOM_CHARGE	WARD_ID
1S-1	500	1
1S-2	2500	2
1S-3	3000	3
1S-4	5000	4
1S-5	2500	5

Table 3 – BED

Field Name	DESCRIPTION	Data Type	Data Size	Condition	Example
Bed_ID	Bed number unique	Integer	6	Primary Key	12345
Bed_Charge	Bed charges	Varchar2	200		Rs.2500
ROOM_N0	Room details	Varchar2	200	Foreign key	1S-45

BED_ID	BED_CHARGE	ROOM_NO
1	500	1S-1
2	2500	1S-2
3	3000	1S-3
4	5000	1S-4
5	2500	1S-5

Table 4 – DOCTOR

Field Name	DESCRIPTION	Data Type	Data Size	Condition	Example
Doc_ID	Doc id number unique	Integer	6	Primary Key	12345
Doc_NAME	Doctor name	Varchar2	200		Ali aslam
Address	Address of doctor	Varchar2	200		lahore
Phone_no	Contact no of doctor	Text	14		1231423

DOC_ID	DOC_NAME	ADDRESS	PHONE_NO
1	ALI	LAHORE	123123
2	AHMAD	ISLAMABAD	123124
3	RAZA	FAISLABAD	123125
4	ZEESHAN	SHEIKHUPURA	123126
5	KHALID	KARACHI	123127

Table 5 – PATIENT

Field Name	DESCRIPTION	Data Type	Data Size	Condition	Example
P_ID	Patient id number	Integer	6	Primary Key	12345
P_NAME	Patient name	Varchar2	200		Ali raza
Address	Address of patient	Varchar2	200		lahore
Phone_no	Contact no of patient	Text	14		1546546

P_ID	P_NAME	ADDRESS	PHONE_NO
1	USAMA	LAHORE	123123
2	HAMZA	ISLAMABAD	123124
3	ISRAR	FAISLABAD	123125
4	HANAN	SHEIKHUPURA	123126
5	AHMAD	KARACHI	123127

Table 6 – MEDICINE

Field Name	DESCRIPTION	Data Type	Data Size	Condition	Example
Med_ID	Medicine number	Integer	6	Primary Key	34
Med_NAME	Medicine Name	Varchar2	200		Amoxcillin
Expire_date	Expire date of medicin	Varchar2	200		15/1/2021

MED_ID	MED_NAME	EXPIRE_DATE
1	ACYCLOVIR	5/4/2021
2	ABACAVIR	6/7/2020
3	ALENDRONATE	8/2/2022
4	ALLOPURINOL	9/4/2021
5	AMIFOSTINE	8/5/2020

Table 7 – BILL

Field Name	DESCRIPTION	Data Type	Data Size	Condition	Example
Bill_ID	Bill number unique	Integer	6	Primary Key	10
P_id	Patient details	Varchar2	200	Foregn key	5
Bill_date	Bill date	Varchar2	200		12/4/2019
Amount	Total amount of bill	Integer	6		500

BILL_ID	P_ID	Bill_date	AMOUNT
1	5	1/3/2019	500
2	4	3/5/2019	1000
3	3	3/5/2019	2500
4	2	6/4/2019	2000
5	1	12/8/2018	1000

Table 8 – NURSE

Field Name	DESCRIPTION	Data Type	Data Size	Condition	Example
Nur_ID	integer	Integer	6	Primary Key	43
Nur_NAME	Employee Name	Varchar2	200		abc

NUR_ID	NUR_NAME
1	HIFZA
2	ZAINAB
3	MAIRA
4	MARYAM
5	AYESHA

Table 9 – ACCOUNTANT

Field Name	DESCRIPTION	Data Type	Data Size	Condition	Example
Acc_ID	Accountant id	Integer	6	Primary Key	12345
Acc_NAME	Accountant name	Varchar2	200		Bilal
Phone_NO	Accountant contact no	Varchar2	200		2345445

ACC_ID	ACC_NAME	PHONE_NO
1	SHAHID	12345
2	JAVED	123456
3	KHALID	1234567
4	USMAN	12345678
5	USAMA	123456789

**Table 10** – SUPPLIER

Field Name	DESCRIPTION	Data Type	Data Size	Condition	Example
S_ID	Supplier id	Integer	6	Primary Key	34
S_NAME	Supplier name	Varchar2	200		Ahmad
Address	Supplier address	Varchar2	200		Abc123

S_ID	S_NAME	ADDRESS
1	AHMAD	LAHORE
2	RAZA	DG KHAN
3	JAHANZAIB	SHEIKHUPURA
4	UMER	FAISLABAD
5	AMEER	LAHORE

# Oracle SQL Commands

## 1. Creating Table **WARD** –

```
[  
  
create table ward  
(ward_id int not null primary key,ward_name varchar(200),room_no varchar(200),  
constraint fk_ward foreign key(room_no) references room(room_no));  
  
]
```

## 2. Creating Table **ROOM**–

```
[  
  
create table room  
(room_no varchar(200) not null primary key,room_charge varchar(200));  
alter table room add ward_id;  
alter table room add constraint fk_ward foreign key(ward_id) references ward(ward_id);  
  
]
```

## 3. Creating Table **BED**–

```
[  
  
create table bed  
(bed_no int not null primary key,bed_charge varchar(200),room_no varchar(200),  
constraint fk_room foreign key(room_no) references room(room_no));  
  
]
```

## 4. Creating Table **DOCTOR** –

```
[  
  
create table doctor  
(doc_id int not null primary key,doc_name varchar(200),address varchar(200),phone_no int);  
  
]
```

## 5. Creating Table **PATIENT**–

```
[  
  
create table patient  
(p_id int not null primary key,p_name varchar(200),address varchar(200),phone_no int);  
  
]
```

6. Creating Table **NURSE** –

```
[  
  
create table nurse  
(nur_id int not null primary key,nur_name varchar(200));  
  
]
```

7. Creating Table **MEDICINE** –

```
[  
  
create table medicine  
(med_id int not null primary key,med_name varchar(200),expire date varchar(200));  
  
]
```

8.Creating Table **BILL** –

```
[  
  
create table bill  
(bill_id int not null primary key,p_id int,  
constraint fk_patient foreign key (p_id) references patient(p_id),bill_date varchar(200),amount int);  
  
]
```

9.Creating Table **ACCOUNTANT** –

```
[  
  
create table accountant  
(acc_id int not null primary key,acc_name varchar(200),phone_no int);  
  
]
```

10.Creating Table **SUPPLIER** –

```
[  
  
create table supplier  
(s_id int not null primary key,s_name varchar(200),address varchar(200));  
  
]
```



## INSERTING DATA IN TABLES

### INSERTING DATA—WARD

[

```
insert into ward(ward_id,ward_name,room_no)
```

```
values('1','cardiology','1s-1');
```

```
insert into ward(ward_id,ward_name,room_no)
```

```
values('2','neurology','1s-2');
```

```
insert into ward(ward_id,ward_name,room_no)
```

```
values('3','oncology','1s-3');
```

```
insert into ward(ward_id,ward_name,room_no)
```

```
values('4','emergency','1s-4');
```

```
insert into ward(ward_id,ward_name,room_no)
```

```
values('5','maternity','1s-5');
```

]

### INSERTING DATA—ROOM

[

```
insert into room(room_no,room_charge,ward_id)
```

```
values('1s-1','500','1');
```

```
insert into room(room_no,room_charge,ward_id)
```

```
values('1s-2','2500','2');
```

```
insert into room(room_no,room_charge,ward_id)
```

```
values('1s-3','3000','3');
```

```
insert into room(room_no,room_charge,ward_id)
```

```
values('1s-4','5000','4');
```

```
insert into room(room_no,room_charge,ward_id)
```

```
values('1s-5','2500','5');
```

]

INSERTING DATA—**BED**

```
[  
  
insert into bed (bed_no,bed_charge,room_no)  
  
values('1','500','1s-1');  
  
insert into bed (bed_no,bed_charge,room_no)  
  
values('2','2500','1s-1');  
  
insert into bed (bed_no,bed_charge,room_no)  
  
values('3','3000','1s-1');  
  
insert into bed (bed_no,bed_charge,room_no)  
  
values('4','5000','1s-1');  
  
insert into bed (bed_no,bed_charge,room_no)  
  
values('5','2500','1s-1');  
  
]
```

INSERTING DATA—**DOCTOR**

```
[  
  
insert into doctor (doc_id,doc_name,address,phone_no)  
  
values('1','ali','lahore','123123');  
  
insert into doctor (doc_id,doc_name,address,phone_no)  
  
values('2','ahmad','islamabad','123124');  
  
insert into doctor (doc_id,doc_name,address,phone_no)  
  
values('3','raza','faislabad','123125');  
  
insert into doctor (doc_id,doc_name,address,phone_no)  
  
values('4','zeeshan','sheikhupura','123126');  
  
insert into doctor (doc_id,doc_name,address,phone_no)  
  
values('5','khalid','karachi','123127');  
  
]
```

## INSERTING DATA—**PATIENT**

```
[  
  
insert into patient(p_id,p_name,address,phone_no)  
  
values('1','usama','lahore','123123');  
  
insert into patient(p_id,p_name,address,phone_no)  
  
values('2','hamza','islamabad','123124');  
  
insert into patient(p_id,p_name,address,phone_no)  
  
values('3','israr','faislabad','123125');  
  
insert into patient(p_id,p_name,address,phone_no)  
  
values('4','hanan','sheikhupura','123126');  
  
insert into patient(p_id,p_name,address,phone_no)  
  
values('5','ahmad','karachi','123127');  
  
]
```

## INSERTING DATA—**MEDICINE**

```
[  
  
insert into medicine(med_id,med_name,expire_date)  
  
values('1','acyclovir','5/4/2021');  
  
insert into medicine(med_id,med_name,expire_date)  
  
values('2','abacavir','6/7/2020');  
  
insert into medicine(med_id,med_name,expire_date)  
  
values('3','alendronate','8/2/2022');  
  
insert into medicine(med_id,med_name,expire_date)  
  
values('4','allopurinoll','9/4/2021');  
  
insert into medicine(med_id,med_name,expire_date)  
  
values('5','amifostine','8/5/2020');  
  
]
```

INSERTING DATA—**BILL**

```
[  
  
insert into bill(bill_id,p_id,bill_date,amount)  
  
values('1','5','1/3/2019','500');  
  
insert into bill(bill_id,p_id,bill_date,amount)  
  
values('2','4','3/5/2019','1000');  
  
insert into bill(bill_id,p_id,bill_date,amount)  
  
values('3','3','3/5/2019','2500');  
  
insert into bill(bill_id,p_id,bill_date,amount)  
  
values('4','2','6/4/2019','2000');  
  
insert into bill(bill_id,p_id,bill_date,amount)  
  
values('5','1','12/8/2018','1000');  
  
]
```

INSERTING DATA—**NURSE**

```
[  
  
insert into nurse(nur_id,nur_name)  
  
values('1','hifza');  
  
insert into nurse(nur_id,nur_name)  
  
values('2','zainab');  
  
insert into nurse(nur_id,nur_name)  
  
values('3','maira');  
  
insert into nurse(nur_id,nur_name)  
  
values('4','maryam');  
  
insert into nurse(nur_id,nur_name)  
  
values('5','ayesha');  
  
]
```

## INSERTING DATA—ACCOUNTANT

```
[  
  
insert into accountant(acc_id,acc_name,phone_no)  
  
values('1','shahid','12345');  
  
insert into accountant(acc_id,acc_name,phone_no)  
  
values('2','javed','123456');  
  
insert into accountant(acc_id,acc_name,phone_no)  
  
values('3','khalid','1234567');  
  
insert into accountant(acc_id,acc_name,phone_no)  
  
values('4','usman','12345678');  
  
insert into accountant(acc_id,acc_name,phone_no)  
  
values('5','usama','123456789');  
  
]
```

## INSERTING DATA—SUPPLIER

```
[  
  
insert into supplier(s_id,s_name,address)  
  
values('1','ahmad','lahore');  
  
insert into supplier(s_id,s_name,address)  
  
values('2','raza','dg khan');  
  
insert into supplier(s_id,s_name,address)  
  
values('3','jahanzaib','sheikhupura');  
  
insert into supplier(s_id,s_name,address)  
  
values('4','umer','faislabad');  
  
insert into supplier(s_id,s_name,address)  
  
values('5','ameer','lahore');  
  
]
```

THANK YOU SO MUCH !

# **INTRODUCTION**

THE PROJECT “HOSPITAL MANAGEMENT SYSTEM” IS FOR COMPUTERIZING THE WORKING IN A HOSPITAL. THE SOFTWARE TAKES CARE OF ALL THE REQUIREMENTS OF AN AVERAGE HOSPITAL AND IS CAPABLE TO PROVIDE EASY AND EFFECTIVE STORAGE OF INFORMATION RELATED TO PATIENTS THAT COME UPTO THE HOSPITAL.

THIS PROJECT “HOSPITAL MANAGEMENT SYSTEM” HAS WARDS FOR THE SPECIAL TREATMENT, ROOMS WHICH ALLOT TO PATIENTS DURING ADMISSION IN HOSPITAL WHILE THE TREATMENT OF PATIENTS PROPERLY IN FRONT OF DOCTORS , BEDS SPECIALLY ALLOT TO PATIENTS FOR EXAMINE , DOCTORS FOR THE CHECKUP OF PATIENTS , PATIENTS COME IN HOSPITAL TO BECOME HEALTHY AFTER THE EXAMINE TO DOCTORS .

MEDICINES WHICH ARE SUGGEST THE DOCTOR TO PATIENTS , BILL OF PATIENTS , ACCOUNTANT TO GET THE BILL FROM PATIENTS AND SUPPLIER WHICH SUPPLIES THE MEDICINE AND OTHER RELATED THINGS OF HOSPITAL .