**XY Pharmacies Chain Database System**

**By**

Yehya Moh’d Khair Khaleel Al-Mubaideen 20102171058 sec: 2

Ahmad Thabet Shraide 20102175023 sec: 2

Rima Ziad Abu-Dalo 20100173099 sec: 4

Course Title: Database Systems (CIS 228)

Instructor: Dr. Hassan Najadat

DBMS: ORACLE 11g XE

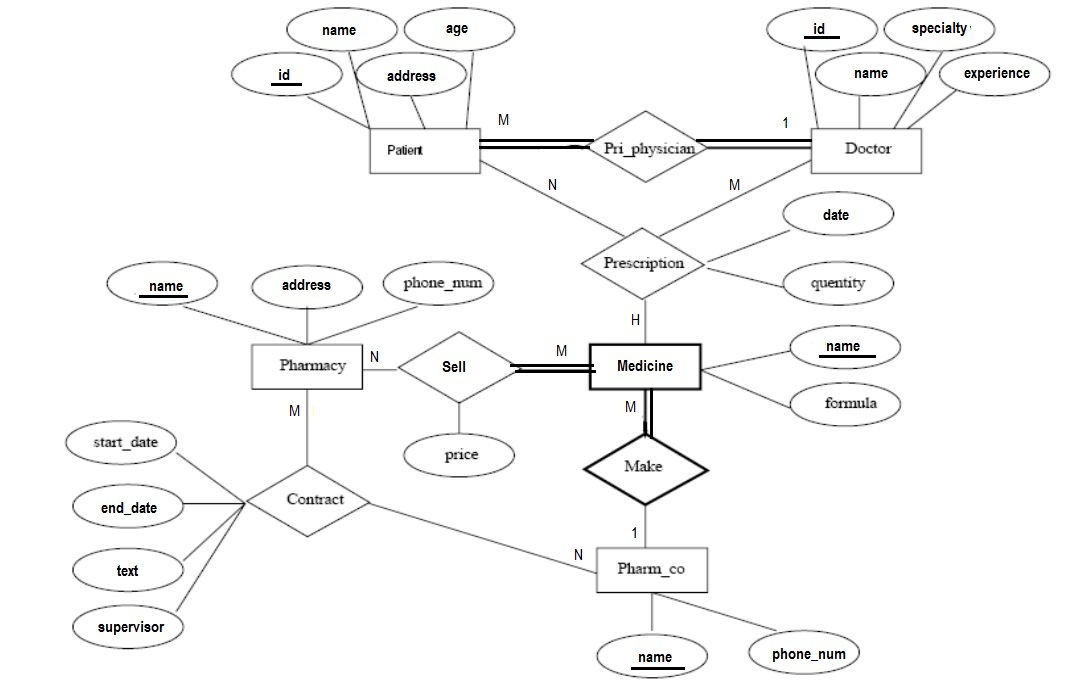


Figure 1

The ER conceptual schema diagram for the XY Pharmacies Chain database

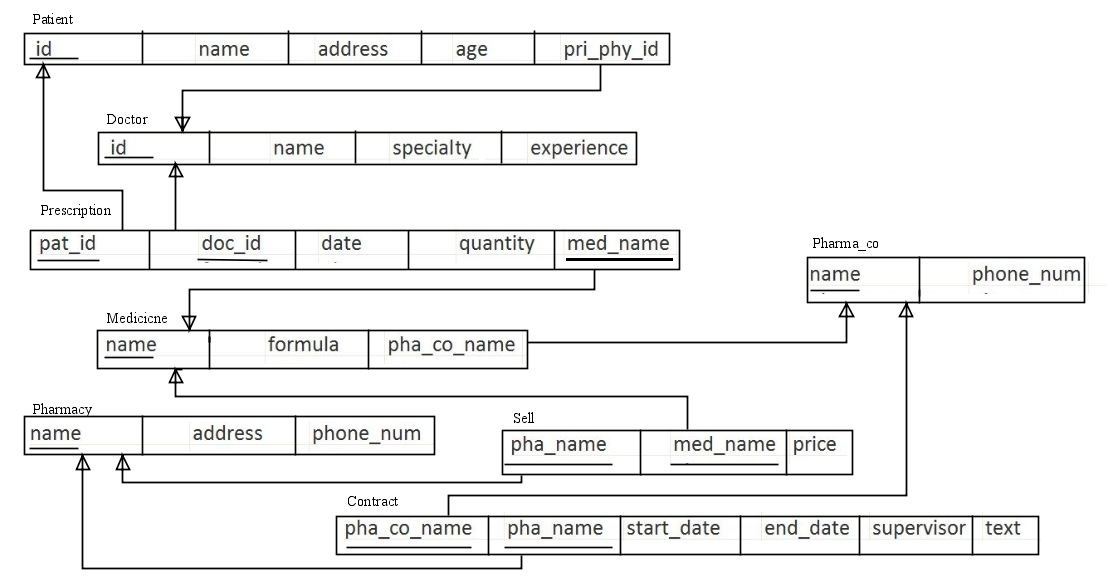


Figure 2

The relation model schema for the XY Pharmacies Chain database

**SQL scripts:**

create table Patient

(id char(8),

name varchar2(25),

address varchar2(25),

age number,

pri\_phy\_id char(8) constraint patient\_pri\_phy\_id\_nn not null,

constraint patient\_id\_pk primary key (id)

);

create table Doctor

(id char(8),

name varchar2(25),

specialty varchar2(25),

experience number,

constraint doctor\_id\_pk primary key (id)

);

create table Prescription

(pat\_id char(8),

doc\_id char(8),

last\_date date,

quantity number default 1,

med\_name varchar2(25),

constraint prescription\_composite\_pk primary key (pat\_id, doc\_id, med\_name)

);

create table Pharma\_co

(name varchar2(25),

phone\_num number(10) constraint pharma\_co\_phone\_num\_uk unique,

constraint pharma\_co\_name\_pk primary key (name)

);

create table Medicine

(name varchar2(25),

formula varchar2(25),

pha\_co\_name varchar2(25),

constraint medicine\_name\_pk primary key (name)

);

create table Pharmacy

(name varchar2(25),

address varchar2(25),

phone\_num number(10) constraint pharmacy\_phone\_num\_uk unique,

constraint pharmacy\_name\_pk primary key (name)

);

create table Sell

(pha\_name varchar2(25),

med\_name varchar2(25),

price number(5,2) constraint sell\_price\_nn not null,

constraint sell\_composite\_pk primary key (pha\_name, med\_name)

);

create table Contract

(pha\_co\_name varchar2(25),

pha\_name varchar2(25),

start\_date date,

end\_date date,

supervisor varchar2(25) constraint contract\_supervisor\_nn not null,

text varchar2(25),

constraint contract\_composite\_pk primary key (pha\_co\_name, pha\_name)

);

alter table Patient add constraint patient\_pri\_phy\_id\_fk foreign key(pri\_phy\_id) references Doctor(id);

alter table Prescription add constraint prescription\_pat\_id\_fk foreign key(pat\_id) references Patient(id)

on delete cascade;

alter table Prescription add constraint prescription\_doc\_id\_fk foreign key(doc\_id) references Doctor(id);

alter table Prescription add constraint prescription\_med\_name\_fk foreign key(med\_name) references Medicine(name);

alter table Medicine add constraint medicine\_pha\_co\_name\_fk foreign key(pha\_co\_name) references Pharma\_co(name)

on delete cascade;

alter table Sell add constraint sell\_pha\_name\_fk foreign key(pha\_name) references Pharmacy(name)

on delete cascade;

alter table Sell add constraint sell\_med\_name\_fk foreign key(med\_name) references Medicine(name)

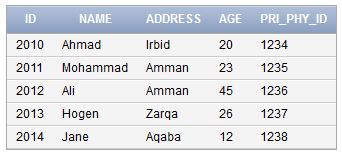
on delete cascade;

alter table Contract add constraint contract\_pha\_co\_name\_fk foreign key(pha\_co\_name) references Pharma\_co(name);

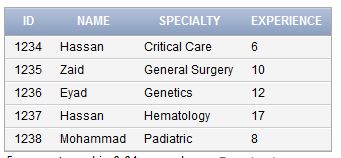
alter table Contract add constraint contract\_pha\_name\_fk foreign key(pha\_name) references Pharmacy(name);

**Populated Database:**

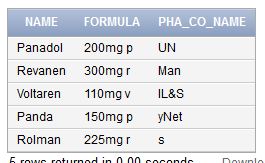
select \* from patient



select \* from doctor



select \* from medicine



select \* from prescription



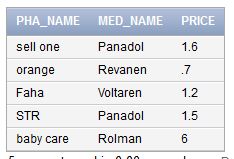
select \* from pharmacy



select \* from pharma\_co



select \* from sell



select \* from contract

