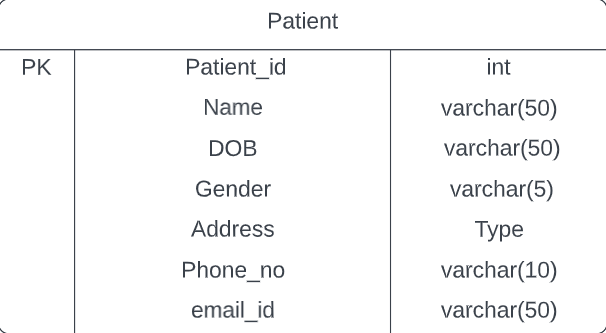
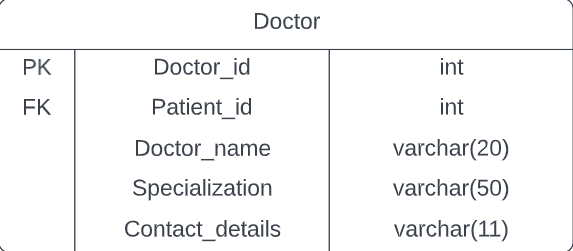
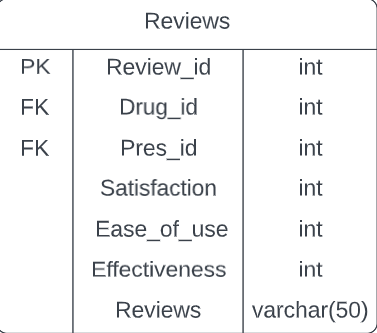
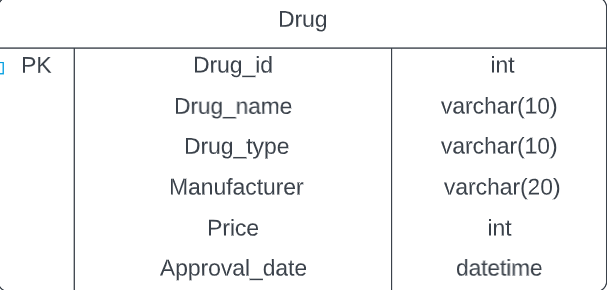
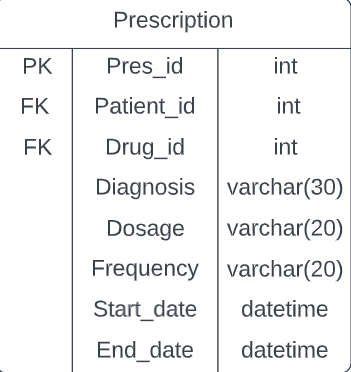
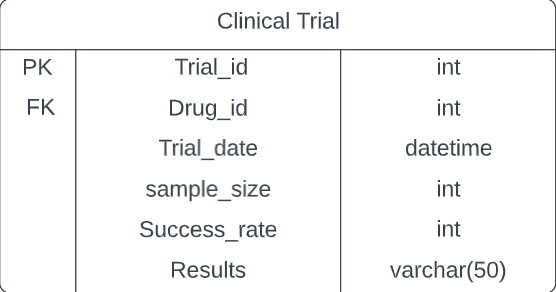
**Drug Performance Analysis**

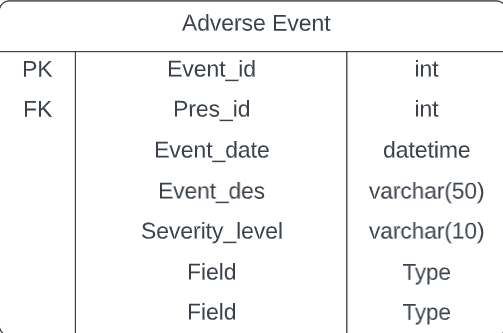
**Abstract:**

The Drug Performance Analysis DBMS project aims to design and develop a system that can effectively manage data related to drugs, patients, doctors, prescriptions, side effects, and treatments. The system will provide a user-friendly interface for doctors and medical professionals to input and retrieve data related to drug performance analysis. The system will track the prescriptions issued to patients, side effects experienced by patients, and treatments provided to patients. The system will be able to generate reports and insights on drug performance analysis based on the data collected, ultimately helping medical professionals make informed decisions about prescribing drugs and managing patient health.

**List of Tables:**

** **

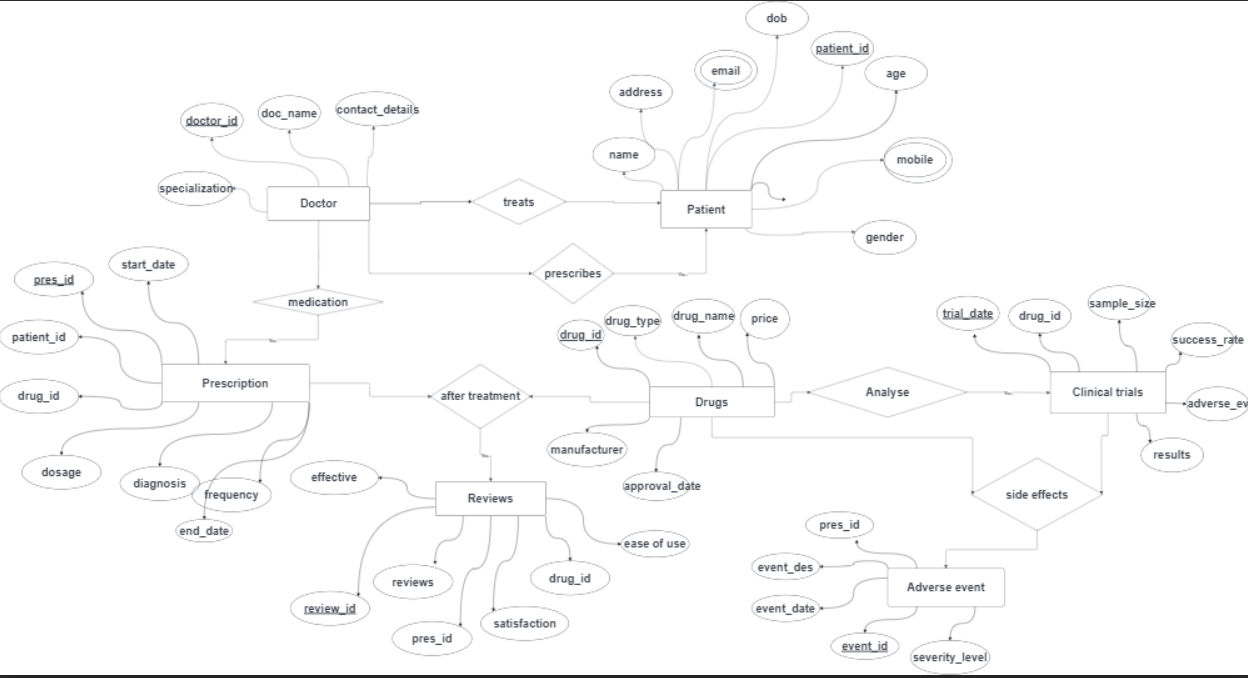
**  **

****

Mapping cardinalities:

* One doctor can have zero to many patients. (1:N)
* One patient can have zero to many prescriptions. (1:N)
* One drug can have zero to many prescriptions. (1:N)
* One drug can have zero to many clinical trials. (1:N)
* One drug can have zero to many reviews. (1:N)
* One prescription can have zero to many adverse events. (1:N)

ER Diagram:



DDL Operations:

1.Patient Table:

CREATE TABLE Patient (

patient\_id INT PRIMARY KEY,

name VARCHAR(50) NOT NULL,

date\_of\_birth DATE NOT NULL,

gender CHAR(1) NOT NULL,

address VARCHAR(100),

phone\_number VARCHAR(20),

email VARCHAR(50)

);

2. Doctor Table:

CREATE TABLE Doctor (

doctor\_id INT PRIMARY KEY,

doctor\_name VARCHAR(50) NOT NULL,

specialization VARCHAR(50) NOT NULL,

contact\_details VARCHAR(100)

);

3. Drug Table:

CREATE TABLE Drug (

drug\_id INT PRIMARY KEY,

drug\_name VARCHAR(50) NOT NULL,

drug\_type VARCHAR(50) NOT NULL,

manufacturer VARCHAR(50) NOT NULL,

approval\_date DATE NOT NULL,

side\_effects VARCHAR(200),

price DECIMAL(10,2),

form VARCHAR(50) NOT NULL,

type VARCHAR(50) NOT NULL

);

4.Prescription Table:

CREATE TABLE Prescription (

prescription\_id INT PRIMARY KEY,

patient\_id INT,

drug\_id INT,

diagnosis VARCHAR(200),

dosage VARCHAR(50),

frequency VARCHAR(50),

start\_date DATE,

end\_date DATE,

FOREIGN KEY (patient\_id) REFERENCES Patient(patient\_id),

FOREIGN KEY (drug\_id) REFERENCES Drug(drug\_id)

);

5. Reviews Table:

CREATE TABLE Reviews (

ReviewID INT PRIMARY KEY,

DrugID INT,

ConditionID INT,

Satisfaction INT,

EaseOfUse INT,

Effective INT,

Reviews VARCHAR(500),

FOREIGN KEY (DrugID) REFERENCES Drug(drug\_id)

);

6.Clinical Trial Table:

CREATE TABLE Clinical\_trial (

trial\_id INT PRIMARY KEY,

drug\_id INT,

trial\_date DATE,

sample\_size INT,

success\_rate FLOAT,

adverse\_events VARCHAR(500),

results VARCHAR(500),

FOREIGN KEY (drug\_id) REFERENCES Drug(drug\_id)

);

7.Adverse Event Table:

CREATE TABLE Adverse\_event (

event\_id INT PRIMARY KEY,

prescription\_id INT,

event\_date DATE,

event\_description VARCHAR(200),

severity\_level VARCHAR(50),

FOREIGN KEY (prescription\_id) REFERENCES Prescription(prescription\_id)

);

DML Operations: