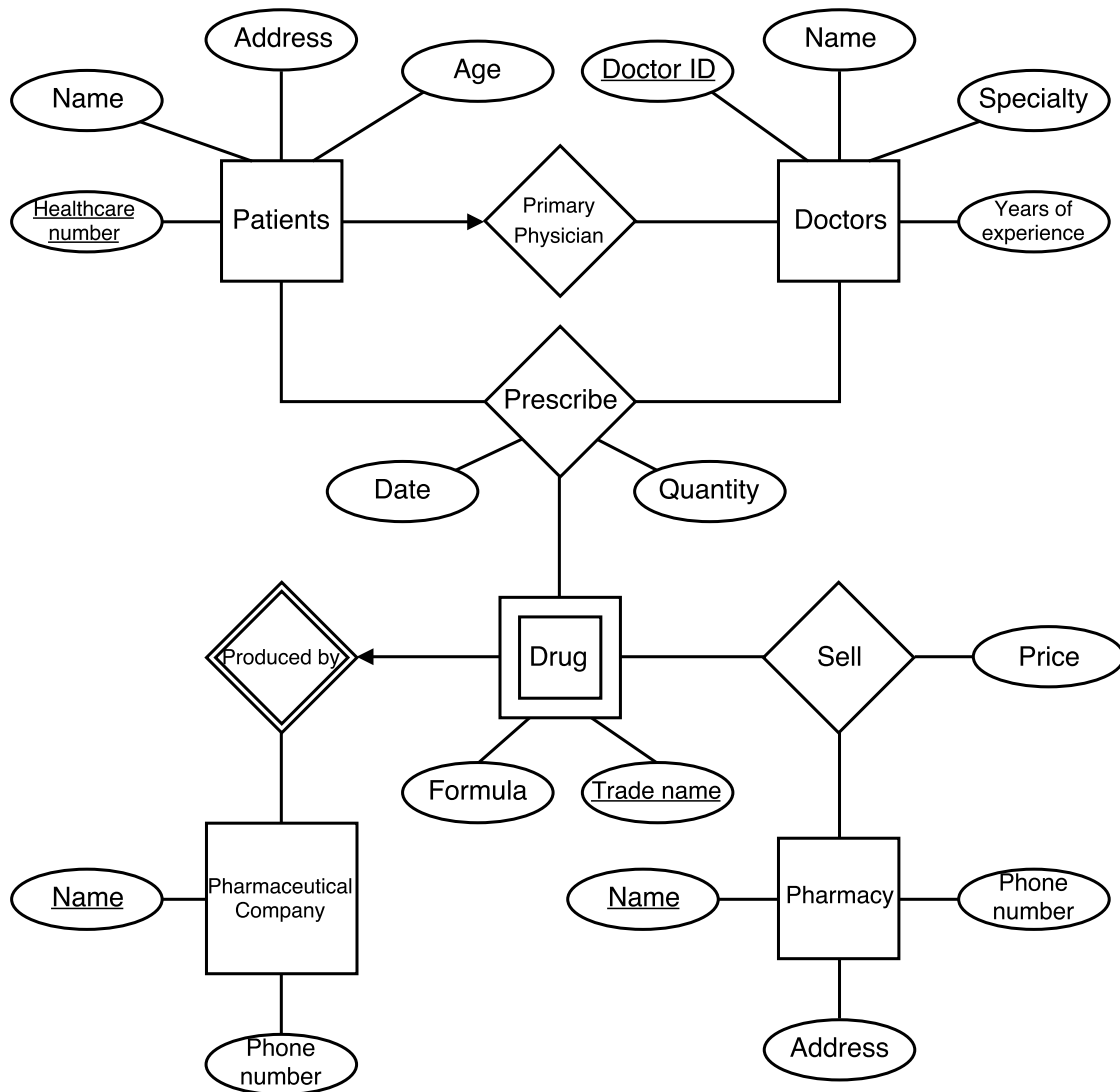


CSC 370 Assignment 1

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Ex.1

1.



2. a)

```
CREATE TABLE Patients (  
    healthcare_number INT,  
    name VARCHAR(20),  
    address VARCHAR(50),  
    age INT,  
    PRIMARY KEY (healthcare_number),  
);
```

```
CREATE TABLE Doctors (  
    doctor_id INT,  
    name VARCHAR(20),  
    specialty VARCHAR(20),  
    years_of_experience INT,  
    PRIMARY KEY (doctor_id),  
);
```

```
CREATE TABLE Pharmacy (  
    pha_name VARCHAR(20),  
    address VARCHAR(50),  
    phone_number INT,  
    PRIMARY KEY (pha_name),  
);
```

```
CREATE TABLE Pharmaceutical_company (  
    name VARCHAR(20),  
    phone_number INT,  
    PRIMARY KEY (name),  
);
```

```
CREATE TABLE Drug_produce (  
    trade_name VARCHAR(20),  
    pha_co_name VARCHAR(20),
```

```
    formula VARCHAR(255),  
    PRIMARY KEY (trade_name, pha_co_name),  
    FOREIGN KEY (trade_name) REFERENCES  
        Pharmaceutical_company (name) ON DELETE CASCADE,  
    FOREIGN KEY (pha_co_name) REFERENCES  
        Pharmaceutical_company (name) ON DELETE CASCADE,  
);
```

```
CREATE TABLE Primary_physician (  
    healthcare_number INT,  
    doctor_id INT,  
    PRIMARY KEY (healthcar_number, doctor_id),  
);
```

```
CREATE TABLE Prescribe (  
    healthcare_number INT,  
    doctor_id INT,  
    trade_name VARCHAR(20),  
    date VARCHAR(20),  
    quantity VARCHAR(20),  
    PRIMARY KEY (healthcare_number, doctor_id, trade_name),  
    FOREIGN KEY (trade_name) REFERENCES  
        Drug_produce(trade_name) ON DELETE CASCEDE,  
);
```

```
CREATE TABLE Sell (  
    pha_name VARCHAR(20),  
    trade_name VARCHAR(20),  
    price INT,  
    PRIMARY KEY (pha_name, trade_name),  
    FOREIGN KEY (pha_name) REFERENCES  
        Pharmacy(pha_name) ON DELETE CASCADE,
```

```
FOREIGN KEY (trade_name) REFERENCES  
Drug_produce(trade_name) ON DELETE CASCADE,  
);
```

```
b)  
INSERT INTO Patients  
VALUES (456123789, 'John Doe', '123 Abc St, Victoria BC', 25);
```

```
INSERT INTO Doctors  
VALUES (999123, 'Jane Doctor', 'Psychiatry', 20);
```

```
INSERT INTO Pharmacy  
VALUES ('Fast Pharmacy', '1111 Health Ave, Victoria BC',  
250001111);
```

```
INSERT INTO Pharmaceutical_company  
VALUES ('OK Medicine', '6041237890');
```

```
INSERT INTO Drug_produce  
VALUES ('OK Aspirin', 'OK Medicine',  
'http://okmedicine.ok/login/formula/');
```

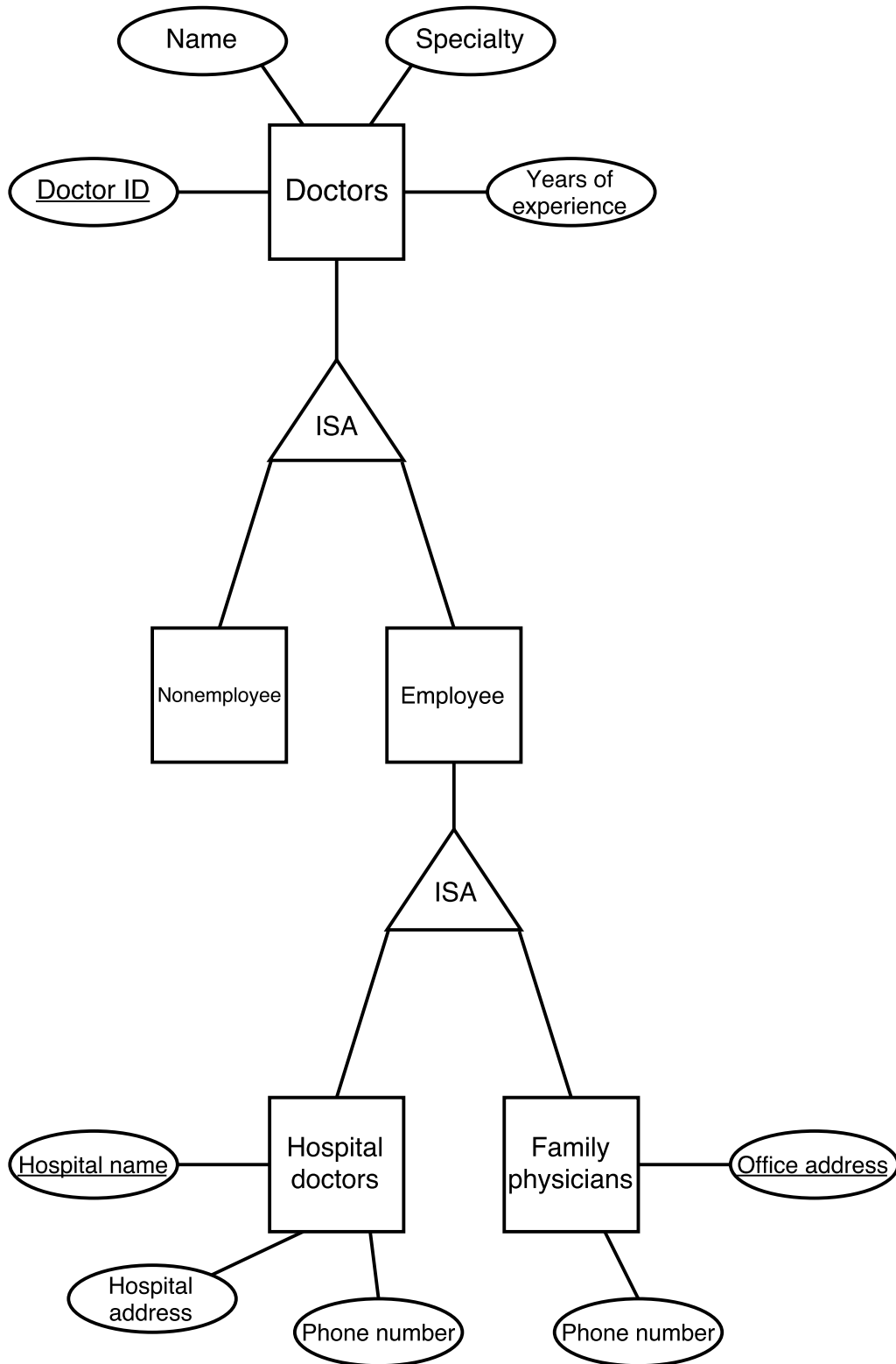
```
INSERT INTO Primary Physician  
VALUES (456123789, 999123);
```

```
INSERT INTO Prescribe  
VALUES (456123789, 999123, 'OK Aspirin', '20 JAN 2017', '3  
boxes');
```

```
INSERT INTO Sell  
VALUES ('Fast Pharmacy', 'OK Aspirin', 10);
```

Ex.2

1.



2.

```
CREATE TABLE Doctors (  
    doctor_id INT,  
    name VARCHAR(20),  
    specialty VARCHAR(20),  
    years_of_experience INT,  
    PRIMARY KEY (doctor_id),  
);
```

```
CREATE TABLE Nonemployee (  
    doctor_id INT,  
    name VARCHAR(20),  
    specialty VARCHAR(20),  
    years_of_experience INT,  
    PRIMARY KEY (doctor_id),  
);
```

```
CREATE TABLE Employee (  
    doctor_id INT,  
    name VARCHAR(20),  
    specialty VARCHAR(20),  
    years_of_experience INT,  
    PRIMARY KEY (doctor_id),  
);
```

```
CREATE TABLE Hospital_doctors (  
    doctor_id INT,  
    hospital_name VARCHAR(20),  
    name VARCHAR(20),  
    specialty VARCHAR(20),  
    years_of_experience INT,  
    hospital_address VARCHAR(50),  
    phone_number INT,
```

```
PRIMARY KEY (doctor_id, hospital_name);  
);
```

```
CREATE TABLE Family_physicians (  
    doctor_id INT,  
    office_address(50),  
    name VARCHAR(20),  
    specialty VARCHAR(20),  
    years_of_experience INT,  
    phone_number INT,  
    PRIMARY KEY (doctor_id, office_address),  
);
```

3.

```
INSERT INTO Doctors  
VALUES (202303888, 'Jane Smith', 'Neurosurgery', 18);  
INSERT INTO Doctors  
VALUES (789456000, 'John Doe', 'Internal medicine', 20);  
INSERT INTO Doctors  
VALUES (999123888, 'Justin Jobless', 'Psychiatry', 5);  
INSERT INTO Doctors  
VALUES (999778250, 'Joe Public', 'Emergency medicine', 8);
```

```
INSERT INTO Nonemployee  
VALUES (999123888, 'Justin Jobless', 'Psychiatry', 5);
```

```
INSERT INTO Employee  
VALUES (202303888, 'Jane Smith', 'Neurosurgery', 18);  
INSERT INTO Employee  
VALUES (789456000, 'John Doe', 'Internal medicine', 20);  
INSERT INTO Employee  
VALUES (999778250, 'Joe Public', 'Emergency medicine', 8);
```

```
INSERT INTO Hospital_doctors  
VALUES (202303888, 'Victoria Hospital', 'Jane Smith', 'Neurosurgery',  
18, '777 Safe St, Victoria BC', 2507778899);
```

```
INSERT INTO Hospital_doctors  
VALUES (789456000, 'Royal Hospital', 'John Doe', 'Internal  
medicine', 20, '999 This Ave, Vancouver BC', 7781231234);
```

```
INSERT INTO Family_physicians  
VALUES (789456000, '202-222 That St, Richmond BC', 'John Doe',  
'Internal medicine', 20, 7781231234);
```

```
INSERT INTO Family_physicians  
VALUES (999778250, '1002-1010 Oh St, Nanaimo BC', 'Joe Public',  
'Emergency medicine', 8, 2502502250);
```