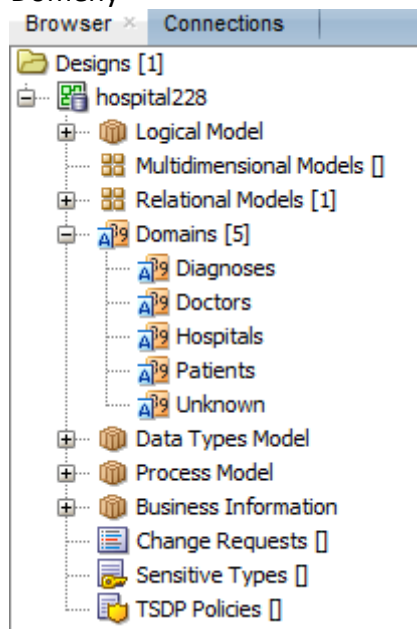
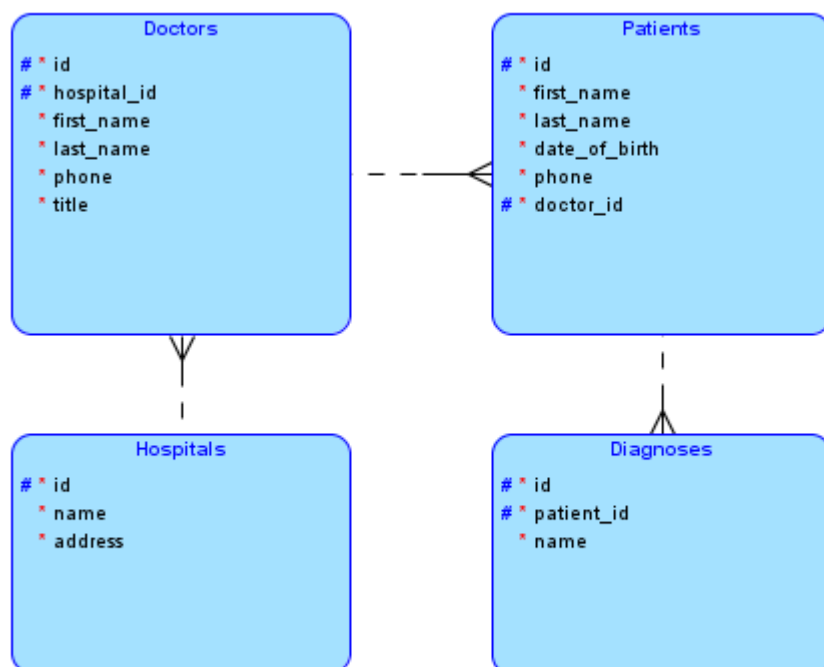


Baza danych szpitala

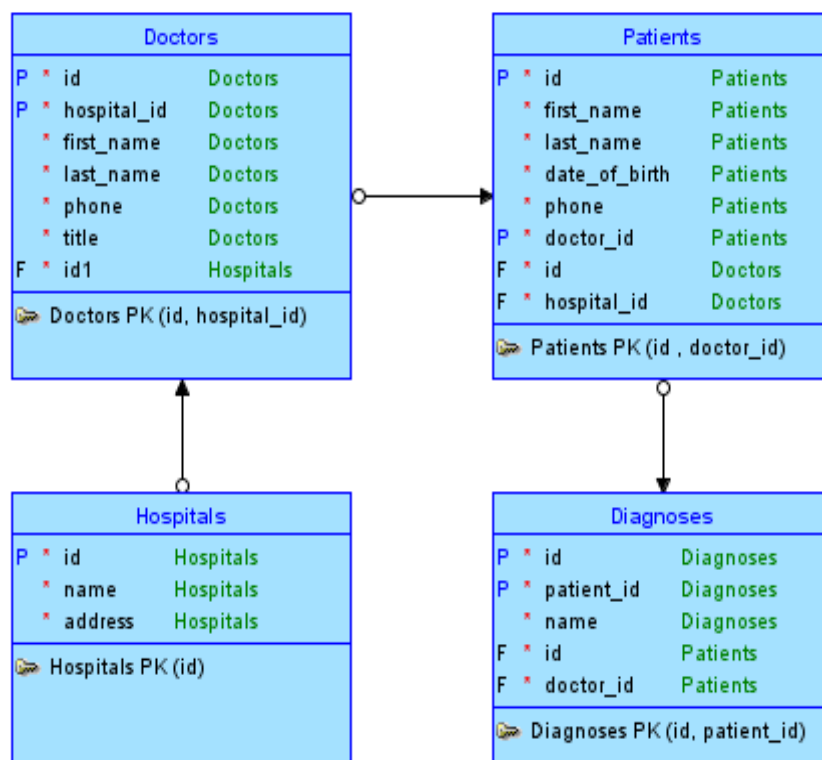
1. Domeny



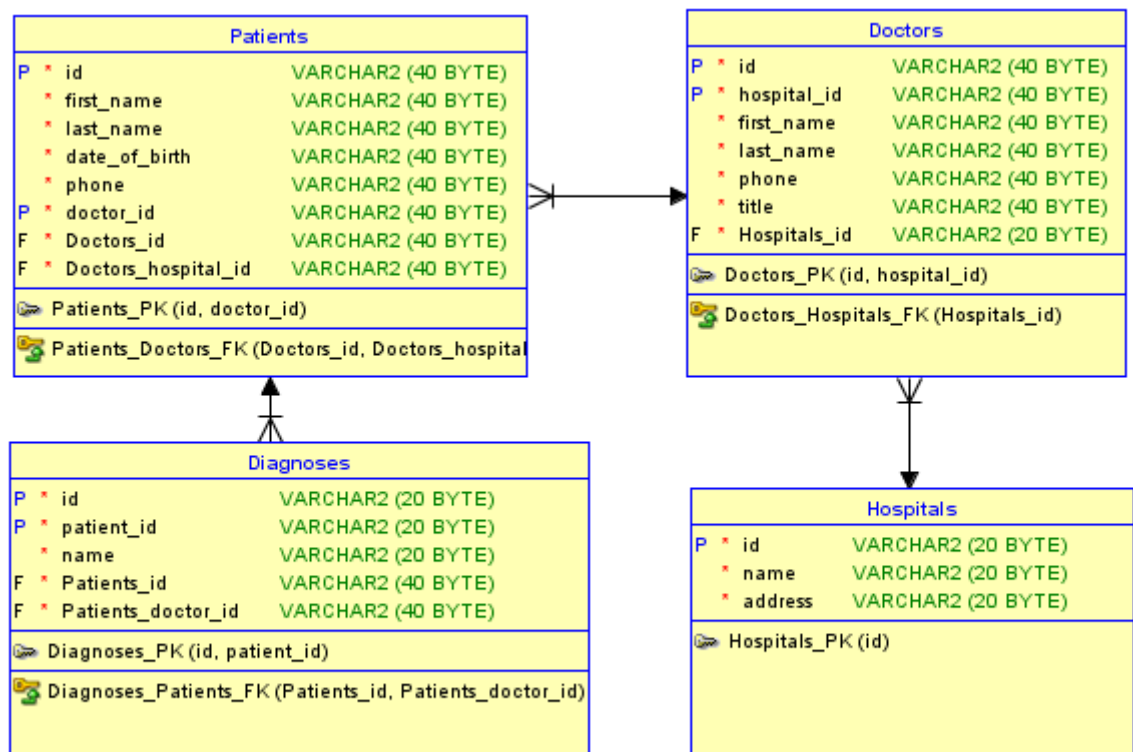
2. Encje oraz związki między nimi



3. Schemat w notacji Bachmana

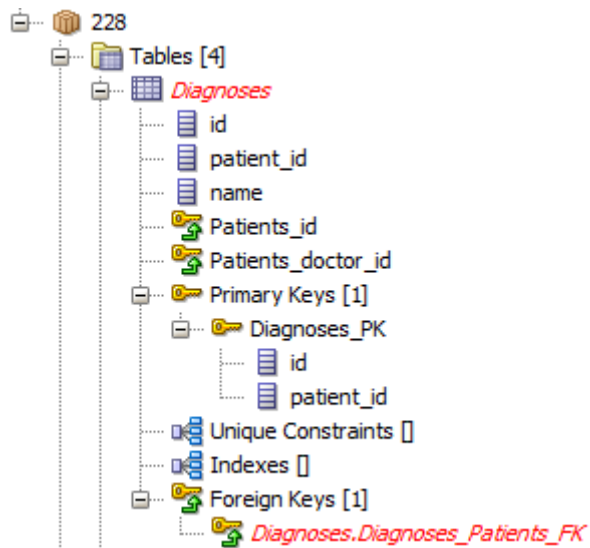


4. Model relacyjny

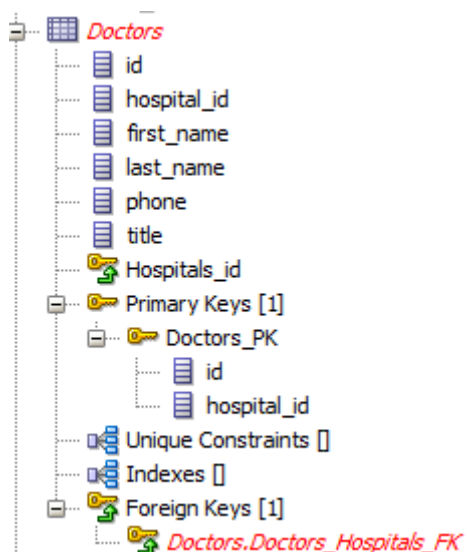


Modele fizyczne

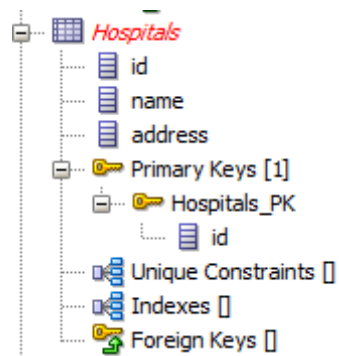
Model fizyczny (tabela Diagnoses)



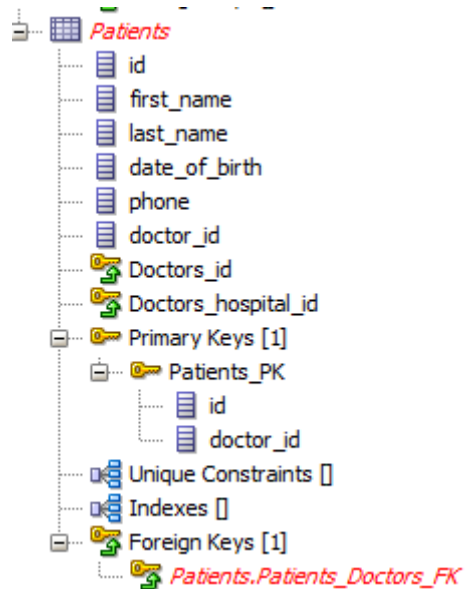
Model fizyczny (tabela Doctors)



Model fizyczny (tabela Hospitals)



Model fizyczny (tabela Patients)



Kod SQL

```
-- Generated by Oracle SQL Developer Data Modeler 4.1.5.907
-- at:      2017-05-17 21:58:51 MSK
-- site:     Oracle Database 11g
-- type:     Oracle Database 11g
```

```
CREATE TABLE Patients
(
    id VARCHAR2 (40) NOT NULL,
    first_name VARCHAR2 (40) NOT NULL,
    last_name VARCHAR2 (40) NOT NULL,
    date_of_birth VARCHAR2 (40) NOT NULL,
    phone VARCHAR2 (40) NOT NULL
)
LOGGING;
ALTER TABLE Patients ADD CONSTRAINT Patients_PK PRIMARY KEY (id,
doctor_id);
```

```
CREATE TABLE Doctors
(
    id VARCHAR2 (40) NOT NULL,
    hospital_id VARCHAR2 (40) NOT NULL,
    last_name VARCHAR2 (40) NOT NULL,
    title VARCHAR2 (40) NOT NULL,
    phone VARCHAR2 (40) NOT NULL
)
LOGGING;
ALTER TABLE Doctors ADD CONSTRAINT Doctors_PK PRIMARY KEY (id,
hospital_id);
```

```
CREATE TABLE Diagnoses
(
    id VARCHAR2 (20) NOT NULL,
    patient_id VARCHAR2 (20) NOT NULL,
    name VARCHAR2 (20) NOT NULL
)
LOGGING;
ALTER TABLE Diagnoses ADD CONSTRAINT Diagnoses_PK PRIMARY KEY (id,
patient_id);
```

```
CREATE TABLE Hospitals
(
    id VARCHAR2 (20) NOT NULL,
    address VARCHAR2 (20) NOT NULL,
    name VARCHAR2 (20) NOT NULL
)
LOGGING;
ALTER TABLE Hospitals ADD CONSTRAINT Hospitals_PK PRIMARY KEY (id);
```

```
ALTER TABLE Patients ADD CONSTRAINT Patients_Doctors_FK FOREIGN KEY (
Doctors_hospital_id ) REFERENCES Doctors ( doctor_id ) NOT DEFERRABLE ;
```

```
ALTER TABLE Doctors ADD CONSTRAINT Doctors_Hospitals_FK FOREIGN KEY
(Hospitals_id ) REFERENCES Hospitals ( hospital_id ) NOT DEFERRABLE ;
```

```
ALTER TABLE Diagnoses ADD CONSTRAINT Diagnoses_Patients_FK FOREIGN KEY
(Patients_doctor_id ) REFERENCES Hospitals ( doctor_id ) NOT DEFERRABLE ;
```