

*person* is an entity with attribute (ID, firstName, lastName, gender, birthday). It has one-one relation with *address*. It also has one-many relation with *phoneNum*. It has three sub classes: *physician*, *patient* and *nurse*. *phoneNum* is an entity with attribute (num, type). It has many-one total relation with *person*.

*address* is a weak entity with attribute extra (postcode, street, city, province). It has one-one relation to *person*.

*physician* is a subclass of *person*. It has its own attribute (yearsPractice, medicalSpe, sal). It has many-one total relation with *department*. It has many-many relation with *drug*. It has one-many relation with *diagnosis*.

*patient* is a subclass of *person*. It has its own extra attribute (insurance). It has one-many relation with *diagnosis*. It has many-one relation with *nurse*. It has one-many relation with *medicalTest*. It has many-many relation with *hospital*. It has one-many relation with *drug*.

*nurse* is a subclass of *person*. It has its own extra attribute (yearPractice, sal). It has one-many relation with *patient*. It has many-one total relation with *department*.

*diagnosis* is a weak entity of *patient* with attribute (prognosis, disease, date). It has many-one total relation with *patient*. It has many-one total relation with *physician*.

*drug* is an entity with attribute (drugID, name, unitCost, category, dosage). It has many-one relation with *physician*. And it has many-one relation with *patient*.

*medicalTest* is an entity with attribute (numID, testName, date, fee, result). It has many-one relation with *patient*.

*hospital* is an entity with attribute (name, annBud, hCity, hStreet). It has many-many relation with *patient*. It has one-many relation with *department*.

*department* is a weak entity of *hospital* with its own extra attribute (depName, annBud). It has many-one relation with *hospital*. It has one-many relation to *physician*. It has one-many relation with *nurse*.