```sql
Create table Patient (
    number      integer,
    name        Varchar (255),
    address     Varchar (255),
    primary Key (number));


Create table PAN (
    domain      Varchar (255
    phone       integer,
    primary Key (domain)),

Create table Device (
    serialnum   integer,
    manufacturer Varchar (255),
    description  Varchar (255),
    primary Key (serial num, manufacturer)),

Create table Sensor (
    snum        integer,
    manuf       Varchar (255),
    units       Varchar (255),
    primary Key (snum, manuf),
    foreign Key (snum) references Device (serial num),
    foreign Key (manuf) references Device (manufacturer));

Create table Actuator (
    snum integer,
    manuf Varchar(255),
    units Varchar (255),
    primary Key (snum, manuf)
    foreign Key (snum) references Device (serial num),
    foreign Key (manuf) references Device (manufacturer));
```

```sql
create table Manufactur (
    manufcode      integer,
    name           varchar (255),
    primary key (manufcode));

create table Period (
    start   date,
    end     date,
    primary key ( start, end));

create table Reading (
    snum       integer,
    manuf      varchar (255),
    datetime   timestamp,
    value      numeric (20, 2),
    primary key (snum, manuf)
    foreign key (snum) references Sensor (snum),
    foreign key (manuf) references Sensor (manuf));

create table Setting (
    snum       integer,
    manuf      varchar (255),
    datetime   timestamp,
    value      numeric (20, 2)
    primary key (snum, manuf)
    foreign key (snum) references Actuator (snum),
    foreign key (manuf) references Actuator (manuf));
```

```sql
create table wears (
    start       timestamp,
    end         timestamp,
    patient     integer,
    fan         Varchar (255),
    primary Key ( start, end, patient ),
    foreign Key ( start ) references Period ( start ),
    foreign Key ( end ) references Period ( end ),
    foreign Key ( patient ) references Patient ( number ),
    foreign Key ( fan ) references PAN ( domain ));

create table lives (
    start       timestamp,
    end         timestamp,
    patient     integer,
    muni        integer,
    primary Key ( start, end, patient ),
    foreign Key ( start ) references Period ( start ),
    foreign Key ( end ) references Period ( end ),
    foreign Key ( patient ) references Patient ( number ),
    foreign Key ( muni ) references Municipality ( mun 4 code ));

create table Connects (
    start       timestamp,
    end         timestamp,
    snum        integer,
    manuf       Varchar (255),
    fan         Varchar (255),
    primary Key ( start, end, snum, manuf )
    foreign Key ( start ) references Period ( start ),
    foreign Key ( end ) references Period ( end ),
    foreign Key ( snum ) references Device ( serial num ),
    foreign Key ( manuf ) references Device ( manufacturer ),
    foreign Key ( fan ) references PAN ( domain ));
```