

# Dental Clinic System Documentation

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## 1-Address

```
Documentation: address ×  
  
table address  
CREATE TABLE address(  
    address_id number(4) NOT NULL ,  
    country varchar2(100) NOT NULL ,  
    city varchar2(100) NOT NULL ,  
    zip_code varchar2(100) NOT NULL ,  
    street_number varchar2(100) NOT NULL,  
    CONSTRAINT address_pk PRIMARY KEY (address_id)  
)
```

## 2-Clinic

Documentation: clinic ×

```
table clinic  
CREATE TABLE clinic(  
    clinic_id number(4) NOT NULL ,  
    name varchar2(100) NOT NULL ,  
    city varchar2(100) NOT NULL ,  
    mail varchar2(150) NOT NULL ,  
    phone_number varchar2(16) NOT NULL ,  
    address_id number(4) NOT NULL ,  
    PRIMARY KEY (clinic_id),  
    FOREIGN KEY (address_id) REFERENCES ADDRESS(address_id)  
)
```

## 3-Department

Documentation: department ×

```
table department  
CREATE TABLE department(  
    department_id number(4) NOT NULL ,  
    name VARCHAR2(100) NOT NULL ,  
    clinic_id number(4) NOT NULL ,  
    address_id number(4) NOT NULL ,  
    PRIMARY KEY (department_id),  
    FOREIGN KEY (address_id) REFERENCES ADDRESS(address_id),  
    FOREIGN KEY (clinic_id) REFERENCES clinic(clinic_id)  
)
```

## 4-Doctor

Documentation: doctor ×

table **doctor**

```
CREATE TABLE doctor(  
    doctor_id number(4) NOT NULL ,  
    first_name varchar2(100) NOT NULL ,  
    last_name varchar2(100) NOT NULL ,  
    mail varchar2(150) NOT NULL ,  
    phone_number varchar2(16) NOT NULL ,  
    address_id number(4) NOT NULL ,  
    department_id number(4) NOT NULL ,  
    clinic_id number(4) NOT NULL ,  
    PRIMARY KEY (doctor_id),  
    FOREIGN KEY (address_id) REFERENCES ADDRESS(address_id),  
    FOREIGN KEY (department_id) REFERENCES department(department_id),  
    FOREIGN KEY (clinic_id) REFERENCES clinic(clinic_id)  
)
```

## 5-Nurse

Documentation: nurse ×

table **nurse**

```
CREATE TABLE nurse(  
    nurse_id number(4) NOT NULL ,  
    first_name varchar2(100) NOT NULL ,  
    last_name varchar2(100) NOT NULL ,  
    mail varchar2(150) NOT NULL ,  
    phone_number varchar2(16) NOT NULL ,  
    address_id number(4) NOT NULL ,  
    department_id number(4) NOT NULL ,  
    clinic_id number(4) NOT NULL ,  
    PRIMARY KEY (nurse_id),  
    FOREIGN KEY (address_id) REFERENCES ADDRESS(address_id),  
    FOREIGN KEY (department_id) REFERENCES department(department_id),  
    FOREIGN KEY (clinic_id) REFERENCES clinic(clinic_id)  
)
```

## 6-Patient

Documentation: patient ×

table **patient**

```
CREATE TABLE patient(  
  patient_id number(4) NOT NULL ,  
  first_name varchar2(100) NOT NULL ,  
  last_name varchar2(100) NOT NULL ,  
  mail varchar2(150) NOT NULL ,  
  phone_number varchar2(16) NOT NULL ,  
  address_id number(4) NOT NULL ,  
  insurance_id number(4) NOT NULL ,  
  PRIMARY KEY (patient_id),  
  FOREIGN KEY (address_id) REFERENCES address(address_id),  
  FOREIGN KEY (insurance_id) REFERENCES insurance_company(insurance_id)  
)
```

- Young

Documentation: [young](#) ×

table **young**

```
CREATE TABLE young(  
  young_id number(4) NOT NULL UNIQUE,  
  patient_id number(4) NOT NULL ,  
  FOREIGN KEY (patient_id) REFERENCES patient(patient_id)  
)
```

- Child

Documentation: [child](#) ×

table **child**

```
CREATE TABLE child(  
  child_id number(4) NOT NULL UNIQUE,  
  deciduous_teeth varchar2(120) NOT NULL,  
  patient_id number(4) NOT NULL ,  
  FOREIGN KEY (patient_id) REFERENCES patient(patient_id)  
)
```

## 7-Insurance\_Company

Documentation: insurance\_company ×

```
table insurance_company
CREATE TABLE insurance_company(
  insurance_id number(4) NOT NULL,
  name varchar2(100) NOT NULL ,
  insurance_type varchar2(50)NOT NULL ,
  insurance_number number(10) NOT NULL ,
  mail varchar2(150) NOT NULL ,
  phone_number varchar2(16),
  PRIMARY KEY (insurance_id)
)
```

## 8-Appointment

Documentation: appointment ×

```
table appointment
CREATE TABLE appointment(
  appointment_id number(4),
  appointment_date date NOT NULL UNIQUE,
  doctor_id number(4) NOT NULL ,
  patient_id number(4) NOT NULL ,
  PRIMARY KEY (appointment_id),
  FOREIGN KEY (doctor_id) REFERENCES doctor(doctor_id),
  FOREIGN KEY (patient_id) REFERENCES patient(patient_id)
)
```

## 9-Treatment

```
Documentation:  treatment ×

table treatment
CREATE TABLE treatment(
  treatment_id number(4),
  fees number(4,3),
  medicine_list varchar2(300) NOT NULL,
  treatment_date date NOT NULL,
  PRIMARY KEY (treatment_id),
  doctor_id number(4) NOT NULL ,
  patient_id number(4) NOT NULL ,
  FOREIGN KEY (doctor_id) REFERENCES doctor(doctor_id),
  FOREIGN KEY (patient_id) REFERENCES patient(patient_id)
)
```

## 10-Medicine

```
Documentation:  medicine ×

table medicine
CREATE TABLE medicine(
  medicine_id number(4) NOT NULL,
  name varchar2(100) NOT NULL,
  price number(4,3),
  treatment_id number(4),
  PRIMARY KEY (medicine_id),
  FOREIGN KEY (treatment_id) REFERENCES treatment(treatment_id)
)
```