Schema of Clinic

```sql
DROP database IF  EXISTS clinic;
CREATE database clinic;

--create patients table
DROP TABLE IF EXISTS patients;
CREATE TABLE patients (
  patient_id serial primary key,
  name_patient varchar(255) not null,
  contact_details text,
  insurance_provider varchar(255),
  medical_history text
);


--create dectors table
DROP TABLE IF EXISTS dectors;
CREATE TABLE dectors(
  dector_id serial primary key,
  dector_name varchar(255)not null,
  contact_details text,
  Specialization varchar(255)
);


--create appointments table
DROP TABLE IF EXISTS appointments;
CREATE TABLE appointments(
  appointment_id serial primary key,
  date_appointment DATE not null,
  time_appointment TIME not null,
  reason_visit TEXT,
  patient_id int not null,
  dector_id int not null,
  FOREIGN KEY (patient_id) REFERENCES patients(patient_id) ON DELETE
CASCADE,
  FOREIGN KEY (dector_id)  REFERENCES dectors(dector_id)  ON DELETE
CASCADE

);
```

```sql
--create prescriptions table
DROP TABLE IF EXISTS prescriptions;
CREATE TABLE prescriptions(
  prescription_id serial primary key,
  prescription_name varchar(255) not null,
  dosage varchar(255) not null,
  doctor_instructions text,
  patient_id int not null,
  dector_id int not null,
  FOREIGN KEY (patient_id) REFERENCES patients(patient_id) ON DELETE
CASCADE,
  FOREIGN KEY (dector_id)  REFERENCES dectors(dector_id)  ON DELETE CASCADE

);



--create billing table
DROP TABLE IF EXISTS billing;
CREATE TABLE billing(
  bill_id serial primary key,
  amount decimal(10,2),
  Payment_status varchar(250),
  Payment_method varchar(250),
  patient_id int not null,
  appointment_id int not null,
  FOREIGN KEY (patient_id) REFERENCES patients(patient_id) ON DELETE
CASCADE,
  FOREIGN KEY (appointment_id) REFERENCES appointments(appointment_id)ON
DELETE CASCADE,
  CHECK ( Payment_status IN('Paid', 'Unpaid')),
  CHECK ( Payment_method IN('Credit Card', 'Insurance', 'Cash'))

);
```

```sql
--create Consultations table
DROP TABLE IF EXISTS Consultations;
CREATE TABLE Consultations (
    Consultation_id serial PRIMARY KEY,
    Consultation_date DATE NOT NULL,
    Consultation_Time TIME NOT NULL,
    Consultation_reason VARCHAR(255) NOT NULL,
    Consultation_Notes TEXT,
    patient_id INT NOT NULL,
    doctor_id INT NOT NULL,
    FOREIGN KEY (Patient_id) REFERENCES Patients(Patient_id) ON DELETE
CASCADE,
    FOREIGN KEY (doctor_id) REFERENCES  dectors(dector_id)  ON DELETE
CASCADE
);


--create staff table
DROP TABLE IF EXISTS staff;
CREATE TABLE staff(
 staff_id serial primary key,
 staff_name varchar(250),
 staff_role varchar(250),
 contact_details text,
 HireDate DATE,
 appointment_id INT,
 patient_id INT,
 dector_id INT,
 FOREIGN key (appointment_id) REFERENCES appointments(appointment_id)ON
DELETE CASCADE,
 FOREIGN key (patient_id) REFERENCES Patients(patient_id)ON DELETE CASCADE,
 FOREIGN key (dector_id) REFERENCES dectors(dector_id)ON DELETE CASCADE
);
```