

Sistemas de Informação e Bases de Dados

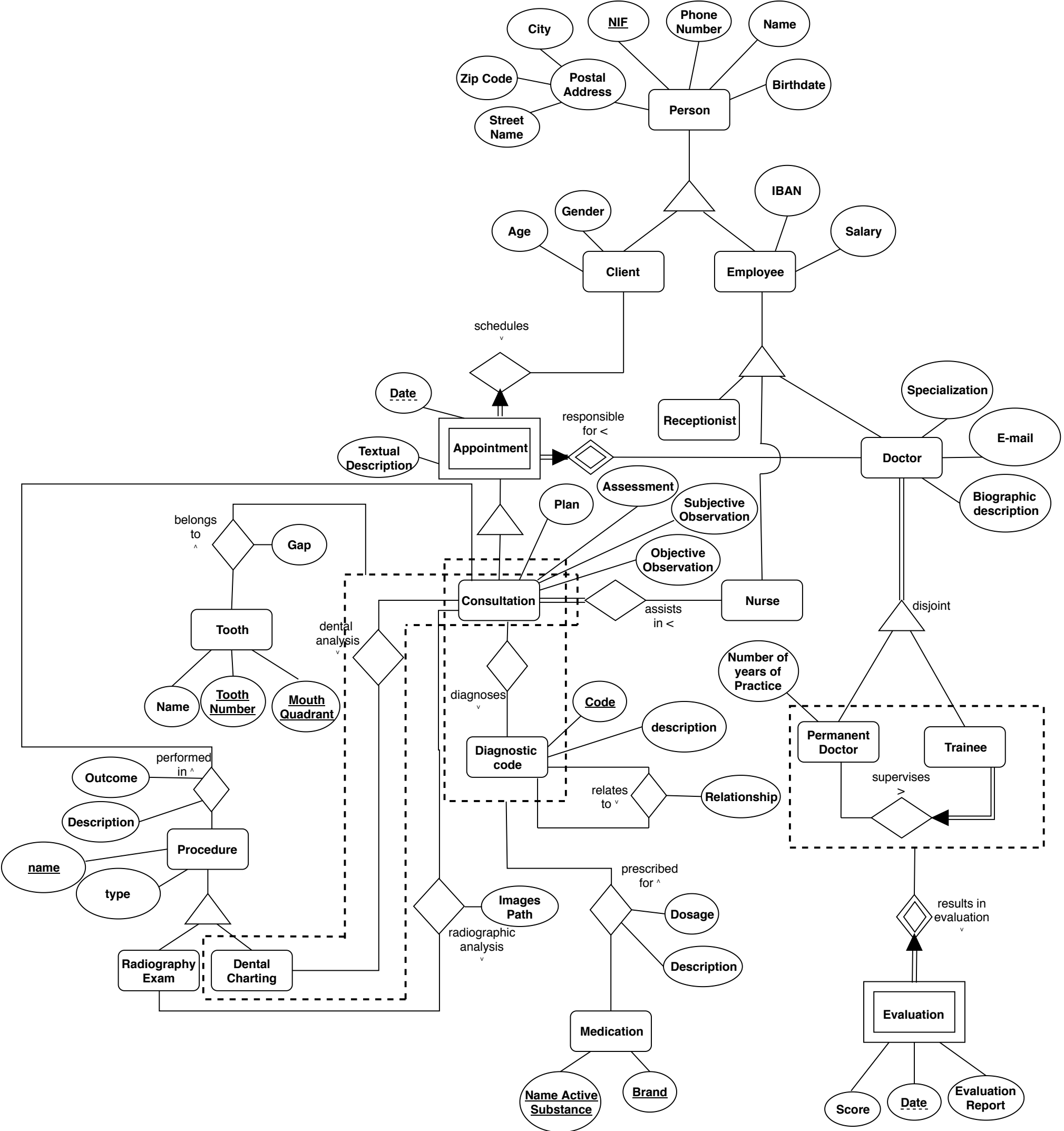
Assignment 1 - Database Modeling

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Relationship Model

Person (NIF, Phone Number, Name, Birthdate, Postal Address.City, Postal Address.Zip Code, Postal Address.Street Name)

Employee (NIF, IBAN, salary)

NIF: FK (Person)

Client (NIF, Age, Gender)

NIF: FK (Person)

Doctor (NIF, Specialization, E-mail, Biographic description)

NIF: FK (Employee)

IC-1: NIF must appear in either *Trainee* or *Permanente Doctor*, but not both

Receptionist (NIF)

NIF: FK (Employee)

Nurse (NIF)

NIF: FK (Employee)

Permanent Doctor (NIF, Number of years of practise)

NIF: FK (Doctor)

Trainee (NIF, pNIF)

NIF: FK (Doctor)

pNIF: FK (Permanent Doctor)

Appointment (Date, dNIF, Textual Description, cNIF)

dNIF: FK (Doctor)

cNIF: FK (Client)

Consultation (Date, dNIF, Assessment, Plan, Objective Observation, Subjective Observation)

Date, dNIF: FK (Appointment)

IC-2: Every (*date*, *dNIF*) in *Consultation* must be in *assists in*

Procedure (type, name)

Diagnostic Code (Code, description)

Radiography Exam (name)

name: FK (Procedure)

Dental Charting (name)

name: FK (Procedure)

Tooth (Tooth number, Name, Mouth Quadrant)

Assists in (Date, cNif, nNif)

Date, cNIF: FK (Consultation)

nNif: FK (Nurse)

Performed in (name, Date, NIF, Outcome, Description)

name: FK (Procedure)

Date, NIF: FK (Consultation)

Diagnoses (Date, NIF, Code)

Date, NIF: FK (Consultation)

Code: FK (Diagnostic code)

Medication (Name Active Substance, Brand)

Prescribed for (Date, NIF, Code, Name Active Substance, Brand, Dosage, Description)

Date, NIF, Code: FK (Diagnoses)

Name Active Substance, Brand: FK (Medication)

Relates to (Code1, Code2, Relationship)

Code1: FK (Diagnostic code)

Code2: FK (Diagnostic code)

Evaluation (Date, Evaluation Report, Score, tNIF)

tNIF: FK (Trainee)

IC-3: Score should be a value in range 1-5

Dental Analysis (name, date, dNIF)

name: FK (Dental Charting)

date, dNIF: FK (Consultation)

Radiographic Analysis (name, date, dNIF, Images Path)

name: FK (Radiography Exam)

date, dNIF: FK (Consultation)

Belongs to (Tooth Number, Mouth Quadrant, name, date, dNIF, Gap)

Tooth Number, Mouth Quadrant: FK (Tooth)

name, date, dNIF: FK (Dental Analysis)