

Sistema de Informação e Base de Dados

Assignment 1 – Database Modeling

Year 2019/2020

Group 60

Person (VAT/NIF, Name, Birthdate, Postal Address)

IC1: It's needed to specify in the postal address the Street name, city and zip code.

Employee (VAT/NIF, Salary, IBAN)

VAT/NIF: FK (person)

IC2: IBAN is unique

Client (VAT/NIF, Gender, Age)

VAT/NIF: FK (person)

Doctor (VAT/NIF, IBAN, Description, E-mail, Specialization)

VAT/NIF: FK (person)

IBAN: FK (employee)

IC3: There are a lot of specialization, such as dento-maxillofacial radiology, oral medicine, paediatric dentistry, etc.

Permanent (VAT/NIF, IBAN, years)

VAT/NIF: FK (person)

IBAN: FK (employee)

Trainees (VAT/NIF, IBAN)

VAT/NIF: FK (person)

IBAN: FK (employee)

Trained_by (VAT/NIF, IBAN)

VAT/NIF: FK (person)

IBAN: FK (employee)

Evaluation (VAT/NIF, IBAN, Grade, Description, Date)

VAT/NIF: FK (person)

IBAN: FK (employee)

Graded (VAT/NIF, IBAN)

VAT/NIF: FK (person)

IBAN: FK (employee)

Receptionist (VAT/NIF, IBAN)

VAT/NIF: FK (person)

IBAN: FK (employee)

Appointment (Date, Description)

IC4: It's needed to specify in the date the hour and the day.

Treated_by (Date, Description, VAT/NIF, IBAN)

VAT/NIF: FK (person)

IBAN: FK (employee)

Date: FK (Appointment)

Intended_for (Date, VAT/NIF, IBAN)

VAT/NIF:FK (person)

IBAN: FK (employee)

Date: FK (Appointment)

Consultations (Date, Information_on_the_nurse, SOAP)

Date: FK (Appointment)

IC4: SOAP notes are formed by:

- *Subjective Observation*: Textual Summary of client observations.
- *Objective Observation*: Textual summary of the relevant history.
- *Assessment*: Textual summary for the situation of the client.
- *Plan*: Textual summary of substantive actions and activities.

Miss appointment (Date)

Date: FK (Appointment)

Procedures (Name, Type, Description)

IC5: Description summarizes the actual procedure and/or its outcome.

Applies (Name, Date)

Date: FK (Appointment)

Name: FK (Procedures)

Radiography Exams (Name, Path)

Name: FK (Procedures)

Dental Charting (Name, Gap, Teeth)

Name: FK (Procedures)

IC6: Teeth are identified according to the Palmer Notation Numbering System, specially through a mouth quadrant and a teeth numer, and they are also associated to a name.

Nurse (VAT/NIF, IBAN)

VAT/NIF: FK (person)

IBAN: FK (employee)

Diagnosis (Description, Code)

IC7: The diagnosis codes should be standardized.

IC8: Each diagnostic code can relate to multiple other codes, which in turn can be further related to yet other codes. The database should be flexible.

Result_in (Code, Date)

Date: FK (Appointment)

Code: FK (Diagnosis)

Prescription (Name, Code, Laboratory, Small Description, Dosage)

Code: FK (Diagnosis)

IC9: Small description has to include the Schedule of doses, that meanwhile includes the time between doses and duration treatment)

Medicated (Code, name, laboratory)

Code: FK (Diagnosis)

Name, Laboratory: FK (Prescription)

