### **Part One: Medical Center**

Doctor

id (PK)

name

specialty

Patient

id (PK)

name

birthday

Disease

id (PK)

name

description

Visit

id (PK)

date

doctor\_id

patient\_id

doctor\_id REFERENCES Doctor (id)

patient\_id REFERENCES Patient (id)

Diagnoses

id (PK)

notes

visit\_id

disease\_id

visit\_id REFERENCES Visit (id)

disease\_id REFERENCES Disease (id)

### 

### **Part Two: Craigslist**

Region

id (PK)

name

User

id (PK)

username

password

region\_id REFERENCES Region (id)

Post

id (PK)

title

text

Location

user\_id REFERENCES User (id)

region\_id REFERENCES Region (id)

Category

id (PK)

name

### 

### **Part Three: Soccer League**

Team

id (PK)

name

Player

id (PK)

name

team\_id REFERENCES Team

Goal

id (PK)

player\_id

match\_id

Season

id (PK)

start\_date

end\_date

Referee

id (PK)

name

Match

id (PK)

home\_team\_id REFERENCES Team(id)

away\_team\_id REFERENCES Team(id)

date

season\_id REFERENCES Season(id)

head\_referee\_id REFERENCES Referee(id)

assistent\_referee\_1\_id REFERENCES Referee(id)

assistent\_referee\_2\_id REFERENCES Referee(id)

Standings

id (PK)

team\_id REFERENCES Team(id)

season\_id REFERENCES Season(id)

wins

losses

draws

points

### **Schema One: Outer Space**

CREATE TABLE planets

(

id SERIAL PRIMARY KEY,

name VARCHAR(255) NOT NULL,

orbit\_id INT NOT NULL,

galaxy\_id INT NOT NULL,

FOREIGN KEY (orbit\_id) REFERENCES orbits(id),

FOREIGN KEY (galaxy\_id) REFERENCES galaxies(id)

);

CREATE TABLE moons

(

id SERIAL PRIMARY KEY,

name VARCHAR(255) NOT NULL,

planet\_id INT NOT NULL,

FOREIGN KEY (planet\_id) REFERENCES planets(id)

);

CREATE TABLE orbits

(

id SERIAL PRIMARY KEY,

name VARCHAR(255) NOT NULL,

orbital\_period\_in\_years FLOAT NOT NULL,

orbits\_around TEXT NOT NULL,

);

CREATE TABLE galaxies

(

id SERIAL PRIMARY KEY,

name VARCHAR(255) NOT NULL UNIQUE,

);

### 

### **Schema Two: Air Traffic**

CREATE TABLE tickets

(

id SERIAL PRIMARY KEY,

first\_name VARCHAR(255) NOT NULL,

last\_name VARCHAR(255) NOT NULL,

trip\_id INT NOT NULL,

FOREIGN KEY (trip\_id) REFERENCES trips(id)

);

CREATE TABLE trips

(

id SERIAL PRIMARY KEY,

seat VARCHAR(10) NOT NULL,

departure TIMESTAMP NOT NULL,

arrival TIMESTAMP NOT NULL,

airline\_id INT NOT NULL,

from\_city\_id INT NOT NULL,

to\_city\_id INT NOT NULL,

FOREIGN KEY (airline\_id) REFERENCES airlines(id),

FOREIGN KEY (from\_city\_id) REFERENCES cities(id),

FOREIGN KEY (to\_city\_id) REFERENCES cities(id)

);

CREATE TABLE airlines

(

id SERIAL PRIMARY KEY,

name VARCHAR(255) NOT NULL UNIQUE

);

CREATE TABLE cities

(

id SERIAL PRIMARY KEY,

name VARCHAR(255) NOT NULL,

country\_id INT NOT NULL,

FOREIGN KEY (country\_id) REFERENCES countries(id)

);

CREATE TABLE countries

(

id SERIAL PRIMARY KEY,

name VARCHAR(255) NOT NULL UNIQUE

);

### **Schema Three: Music**

CREATE TABLE songs

(

id SERIAL PRIMARY KEY,

title VARCHAR(255) NOT NULL,

duration\_in\_seconds INTEGER NOT NULL,

release\_date DATE NOT NULL,

artist\_id INT NOT NULL,

album\_id INT NOT NULL,

producer\_id INT NOT NULL

);

CREATE TABLE albums

(

id SERIAL PRIMARY KEY,

name VARCHAR(255) NOT NULL,

release\_date DATE NOT NULL

);

CREATE TABLE artists

(

id SERIAL PRIMARY KEY,

name VARCHAR(255) NOT NULL

);

CREATE TABLE producers

(

id SERIAL PRIMARY KEY,

name VARCHAR(255) NOT NULL

);