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1 CREATE TABLE UserR(
2     email VARCHAR(64) NOT NULL PRIMARY KEY,
3     passW VARCHAR(64) NOT NULL,
4     nickname VARCHAR(64),
5     notes VARCHAR(1024)
6 );
7
8 CREATE TABLE Contact(
9     contactID SERIAL NOT NULL PRIMARY KEY,
10    contactName VARCHAR(32) NOT NULL,
11    surname VARCHAR(32) NOT NULL,
12    propic VARCHAR(1024) DEFAULT 'C:\Users\Velios\Desktop\Uni\cd\
    defaultpic'
13    favorite BOOLEAN NOT NULL DEFAULT 'false',
14    userR VARCHAR(64) NOT NULL,
15    CONSTRAINT FK_userContact FOREIGN KEY (UserR) REFERENCES UserR(
        email) ON DELETE CASCADE
16 );
17
18 CREATE TABLE GroupC(
19    groupID SERIAL NOT NULL PRIMARY KEY,
20    groupName VARCHAR(32) NOT NULL,
21    creationDate DATE NOT NULL
22    description VARCHAR(64),
23    userR VARCHAR(64) NOT NULL,
24    CONSTRAINT FK_userGroup FOREIGN KEY (userR) REFERENCES UserR(
        email) ON DELETE CASCADE
25 );
26
27 CREATE TABLE Participant(
28    groupID VARCHAR(5) NOT NULL,
29    contactID VARCHAR(5) NOT NULL,
30    joinDate DATE NOT NULL,
31    CONSTRAINT FK_groupIDParticipant FOREIGN KEY (groupID) REFERENCES
        GroupR(groupID) ON DELETE CASCADE
32    CONSTRAINT FK_contactIDParticipant FOREIGN KEY (contactID)
        REFERENCES Contact(contactID) ON DELETE CASCADE
33 );
34
35 CREATE TABLE Address(
36    street VARCHAR(1024) NOT NULL,
37    zipCode CHAR(5) NOT NULL,
38    city VARCHAR(32),
39    province CHAR(2),
40    country VARCHAR(32),
41    CONSTRAINT PK_Address PRIMARY KEY (street, zipcode)
42 );
43
44 CREATE TABLE Email(
45    email VARCHAR(1024) NOT NULL PRIMARY KEY,
46    main BOOLEAN NOT NULL DEFAULT 'false',
47    contactID VARCHAR(64),
48    CONSTRAINT FK_contactEmail FOREIGN KEY (contactID) REFERENCES
        Contact(contactID) ON DELETE NULL
49 );
50
51 CREATE TABLE Messaging(

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52  supplierName VARCHAR(64) NOT NULL
53  nickname VARCHAR(64) NOT NULL,
54  assEmail VARCHAR(1024) NOT NULL,
55  status VARCHAR(1024),
56  CONSTRAINT PK_Messaging PRIMARY KEY (supplierName, assEmail),
57  CONSTRAINT FK_AssEmail FOREIGN KEY assEmail REFERENCES Email(
    email) ON DELETE CASCADE
58 );
59
60 CREATE TABLE PhoneNumber(
61  phoneType VARCHAR(8) NOT NULL,
62  phoneNumber CHAR(10) NOT NULL PRIMARY KEY,
63  linkedNumber BOOLEAN NOT NULL DEFAULT 'false',
64 );
65
66 CREATE TABLE PhoneCall(
67  callID SERIAL NOT NULL PRIMARY KEY,
68  callType VARCHAR(32) NOT NULL,
69  dateH TIMESTAMP NOT NULL,
70  phoneNumber CHAR(10) NOT NULL,
71  duration INTERVAL,
72  contactName VARCHAR(64) DEFAULT 'UNKNOWN',
73  userR VARCHAR(64) NOT NULL,
74  CONSTRAINT FK_userCall FOREIGN KEY (userR) REFERENCES UserR(email
    ) ON DELETE CASCADE
75 );
76
77 CREATE TABLE AssignedAddress(
78  contactID INTEGER NOT NULL,
79  addressStr VARCHAR(126) NOT NULL,
80  addressZip VARCHAR(5) NOT NULL,
81  main BOOLEAN DEFAULT 'false',
82  CONSTRAINT FK_ADContactID FOREIGN KEY (contactID) REFERENCES
    Contact(contactID) ON DELETE CASCADE,
83  CONSTRAINT FK_ADAddress FOREIGN KEY (addressStr, addressZip)
    REFERENCES Address(street, zipCode) ON DELETE CASCADE
84 );
85
86 CREATE TABLE AssignedPhone(
87  phoneNumber CHAR(10) NOT NULL,
88  contactID INTEGER NOT NULL,
89  CONSTRAINT FK_APContactID FOREIGN KEY (ContactId) REFERENCES
    Contact(contactID) ON DELETE CASCADE,
90  CONSTRAINT FK_phoneNumber FOREIGN KEY(phoneNumber) REFERENCES
    PhoneNumber(phoneNumber) ON DELETE CASCADE
91 );

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Listing 1: Python example