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DROP TABLE IF EXISTS VaccineRecord;
DROP TABLE IF EXISTS Appointment;
DROP TABLE IF EXISTS PatientUser;
DROP TABLE IF EXISTS DoctorUser;
DROP TABLE IF EXISTS AdminUser;
DROP TABLE IF EXISTS GPSurgery;

#create GPSurgery table (we added it so that the application may contain multiple
GP Surgeries in future)
CREATE TABLE GPSurgery
(
    surgeryCode          INTEGER(4) AUTO_INCREMENT,
    surgeryName          VARCHAR(50),
    openingHour          DECIMAL(2,2),
    closingHour          DECIMAL(2,2),
    CONSTRAINT pk_gp_surgery PRIMARY KEY (surgeryCode)
);
ALTER TABLE GPSurgery AUTO_INCREMENT=1000;

#create PatientUser table
CREATE TABLE PatientUser
(
    userId              INTEGER(8)      AUTO_INCREMENT,
    NHSNumber           INTEGER          NOT NULL UNIQUE,
    forename            TEXT            NOT NULL,
    surname             TEXT            NOT NULL,
    userEmail           VARCHAR(50)     NOT NULL UNIQUE,
    contactNo           VARCHAR(20)     NOT NULL,
    userPassword        VARCHAR(20)     NOT NULL,
    personDOB           DATE            NOT NULL,
    postCode            TEXT            NOT NULL,
    registrationStatus  INTEGER(1)     NOT NULL,
    surgeryCode         INTEGER,
    updaterUserId       INTEGER,
    CONSTRAINT pk_patient_user PRIMARY KEY (userId),
    CONSTRAINT p_sc_fk FOREIGN KEY (surgeryCode) REFERENCES GPSurgery(surgeryCode),
    CONSTRAINT p_upd_fk FOREIGN KEY (updaterUserId) REFERENCES PatientUser(userId)
);
ALTER TABLE PatientUser AUTO_INCREMENT=10000000;

#create DoctorUser table
CREATE TABLE DoctorUser
(
    userId              INTEGER(7)      AUTO_INCREMENT,
    licenceNo           INTEGER(8)     NOT NULL UNIQUE,
    forename            VARCHAR(50)     NOT NULL,
    surname             VARCHAR(50)     NOT NULL,
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    userEmail        VARCHAR(50)    NOT NULL UNIQUE,
    contactNo        VARCHAR(20)    NOT NULL,
    userPassword      VARCHAR(20)    NOT NULL,
    surgeryCode       INTEGER(8),

    CONSTRAINT pk_doctor_user PRIMARY KEY (userId),
    CONSTRAINT d_sc_fk FOREIGN KEY (surgeryCode) REFERENCES GPSurgery(surgeryCode)
);

ALTER TABLE DoctorUser AUTO_INCREMENT=1000000;

#create AdminUser table
CREATE TABLE AdminUser
(
    userId            INTEGER(6)      AUTO_INCREMENT,
    forename          VARCHAR(50)     NOT NULL,
    surname           VARCHAR(50)     NOT NULL,
    userEmail         VARCHAR(50)     NOT NULL UNIQUE,
    contactNo         VARCHAR(20)     NOT NULL,
    userPassword      VARCHAR(20)     NOT NULL,
    surgeryCode       INTEGER(8),

    CONSTRAINT pk_admin_user PRIMARY KEY (userId),
    CONSTRAINT adm_sc_fk FOREIGN KEY (surgeryCode) REFERENCES
GPSurgery(surgeryCode)
);

ALTER TABLE AdminUser AUTO_INCREMENT=100000;

#create Appointment table
CREATE TABLE Appointment
(
    bookingRefNo      INTEGER(10) AUTO_INCREMENT,
    NHSNumber         INTEGER NOT NULL,
    licenceNo         INTEGER NOT NULL,
    canceledBy        INTEGER,
    surgeryCode       INTEGER NOT NULL,
    appointmentStatus VARCHAR(1),
    appointmentTime   DECIMAL(2,2),
    patientNotes      VARCHAR(300),
    CONSTRAINT pk_appointment PRIMARY KEY (bookingRefNo, NHSNumber, licenceNo),
    CONSTRAINT app_nhs_fk FOREIGN KEY (NHSNumber) REFERENCES PatientUser
(NHSNumber),
    CONSTRAINT app_ln_fk FOREIGN KEY (licenceNo) REFERENCES DoctorUser (licenceNo),
    CONSTRAINT app_adcan_fk FOREIGN KEY (canceledBy) REFERENCES AdminUser (userId),
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        CONSTRAINT app_pcan_fk FOREIGN KEY (canceledBy) REFERENCES PatientUser
        (userId),
        CONSTRAINT app_sc_fk FOREIGN KEY (surgeryCode) REFERENCES GPSurgery
        (surgeryCode)
    );

#create VaccineRecord table
CREATE TABLE VaccineRecord
(
    doseNo                INTEGER NOT NULL,
    NHSNumber             INTEGER NOT NULL,
    vaccinationDate       DATE NOT NULL,
    vaccineManufacturer   TEXT NOT NULL,
    diseaseTargeted       TEXT NOT NULL,
    vaccineType           TEXT NOT NULL,
    product               TEXT NOT NULL,
    vaccineBatchNumber    TEXT NOT NULL,
    countryOfVaccination  TEXT NOT NULL,
    authority             TEXT NOT NULL,
    vaccineSite           TEXT NOT NULL,
    totalSeriesOfDoses    INTEGER NOT NULL,
    displayName           TEXT NOT NULL,
    snomedCode            INTEGER NOT NULL,
    dateEntered           DATE NOT NULL,
    procedureCode         INTEGER NOT NULL,
    booster               BOOLEAN NOT NULL,
    licenceNo             INTEGER NOT NULL,
    CONSTRAINT pk_vaccine_record PRIMARY KEY (NHSNumber, doseNo),
    CONSTRAINT fk1 FOREIGN KEY (NHSNumber) REFERENCES PatientUser(NHSNumber),
    CONSTRAINT fk2 FOREIGN KEY (licenceNo) REFERENCES DoctorUser(licenceNo)
);
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