COVID-19 Vaccine Scheduling App

Caregivers
- ~ CaregiverId int PK
- ~ CaregiverName varchar(50)

CaregiverSchedule
- ~ CaregiverSlotSchedulingId int PK
- ~ CaregiverId int FK
- ~ WorkDay date
- ~ SlotTime time
- ~ SlotHour int
- ~ SlotMinute int
- ~ SlotStatus int FK
- ~ VaccineAppointmentId int FK

AppointmentStatusCode
- ~ StatusCodeId int PK
- ~ StatusCode varchar(30)

VaccineAppointment
- ~ VaccineAppointmentId int PK
- ~ VaccineName varchar(50) FK
- ~ VaccineLotNumber varchar(12) FK
- ~ PatientId int FK
- ~ ReservationDate date
- ~ DateCheckedIn datetime
- ~ DateAdministered datetime
- ~ RescheduledAppointmentId int FK

VaccineBatches
- ~ VaccineName varchar(50) FK
- ~ VaccineLotNumber varchar(12)
- ~ ExpirationDate date
- ~ OwnedDoses int
- ~ ReservedDoses int
- ~ DeliveryDate date
- ~ Inactive bit

Patients
- ~ PatientId int PK
- ~ PatientName varchar(50)
- ~ PatientBirthdate int
- ~ PatientEmail varchar(254)
- ~ PatientPhone varchar(10)

Vaccines
- ~ VaccineName varchar(50) PK
- ~ VaccineBrand varchar(50)
- ~ VaccineSupplier varchar(50)
- ~ DoseVolume int
- ~ DoseSeries int
- ~ IntervalBetweenDoses int
- ~ VaccineMinAge int
- ~MinAgeOfEUA int

PatientStatus
- ~ PatientId int FK
- ~ VaccinationStatus int FK
- ~ StatusDate date

VaccinationStatusCodes
- ~ StatusCodeId int PK
- ~ StatusCode varchar(30)

Relationships (multiplicities):
- Caregivers 1 — 0..* CaregiverSchedule
- AppointmentStatusCode 1 — 0..* CaregiverSchedule
- CaregiverSchedule 0..1 — VaccineAppointment 0..1
- VaccineAppointment 0..* — 1 VaccineBatches
- VaccineAppointment 0..* — 0..1 Patients
- VaccineBatches 0..* — 1 Vaccines
- Patients 1..* — 1..* PatientStatus
- PatientStatus 0..* — 1..* VaccinationStatusCodes