I want to create a hotel website. You can sign in to your account and see your reservations. You can make a reservation. You can request to cancel a reservation. For now, let’s set up a framework where a user signs into a website.

We will store user like

CREATE TABLE user (birthdate datetimeoffset(7) not null,--to make sure the person is old enough they must enter their birth date

--add age as a virtual column here where current date time-birthdate

user\_id UNIQUEIDENTIFIER DEFAULT NEWID() PRIMARY KEY, -- UUID primary key

first\_name VARCHAR(50) NOT NULL, -- first\_name, not null

middle\_name VARCHAR(50) NULL, -- middle\_name, nullable

second\_middle\_name varchar(5) null, --Catholics often have a second middle name

last\_name VARCHAR(50) NOT NULL, -- last\_name, not null

suffix VARCHAR(10) NULL, -- suffix, nullable

email\_address varchar(100) not null,--add a check constraint that email address is an email address with regex oh wait SQL Server doesn’t support regex

Phone\_number varchar(100) not null,

--add Gender\_id uniqueidentifier to reference the gender table with male and female

date\_created DATETIMEOFFSET(7) DEFAULT SYSDATETIMEOFFSET() NOT NULL,

--add date updated after date created

--add a virtual column date created or updated so if no updates, it populates with date created, and if it has been updated, then date updated

CONSTRAINT UQ\_student\_name\_combination -- Unique constraint on name combination

UNIQUE (first\_name, middle\_name, last\_name, suffix),

Constraint uq\_email unique(email\_address)

);

We will store the password in a hashed format. There will be a page sign up and you enter the information that is required—birthdate,first, last, email, phone,gender. Middle name, second middle name, and suffix are optional. We ask for birthdate first because as the user enters birthdate we reject them early say they are 10 years old instead of waiting for them to get through most of the form and enter their birth date. The gender table will have gender\_id and gender and date\_created and date updated and date created or updated.