Name: Tiparpron Sukanya

Homework:5.2

1. `Using the attached ERD file (zoo\_ERD.pdf), the assignment spread sheet (Assignment Spread Sheet.xlsx) create the database, tables and insert the data from the spread sheet.

Ensure every table has a primary key, create a new database for this exercise, this way if you need to you can delete the database and start over. The reason for using your last name is the students that are using my server need to use unique names for just the database.

CREATE DATABASE your\_last\_name\_zoo;

GO

USE your\_last\_name\_zoo;

GO

Upload a text file with all your DDL and DML statements.

1. Using the ERD add foreign keys to the tables that require them (should be three foreign keys). DO NOT DELETE THE TABLE AND RE-CREATE THE TABLE WITH THE FOREIGN KEY! Use the alter table DDL statement.
2. Change the size of the dept\_name column in the dept table to char(2500). DO NOT DELETE THE TABLE AND RE-CREATE THE TABLE WITH THE NEW COLUMN WIDTH! Use the alter table DDL statement.
3. Add a constraint to the employees table so only the two-digit abbreviation for the states can be used. (Only do AL, MD, MA, MT, NC, FL, OR)
4. Try inserting the following DML command into the employees table. What error did you get?

insert into employees values ('John','Doe','jdoe@aol.com','123-456-7890','1234 Main Street','Any Town','VT','12345',null,2,3);

1. Using the SELECT INTO Statement copy the employees first and last name from dbo.employees, that are contractors with Brainsphere into a table named dbo.test.
2. Repeat #6 this time using the INSERT SELECT Statement. You will need to create a table (named dbo.test2) of 1 column that will hold the copied data of the employees first and last name, that are contractors from Brainsphere.
3. Delete all the rows from the employees table that are contractors from Zoonder (use the contractor\_id of 5).

Answer Question 1/ begin

CREATE DATABASE Sukanya2

CREATE TABLE Building (

Building\_id varchar(250) NOT NULL,

name varchar(250) NOT NULL

)

CREATE TABLE Contractor (

contractor\_id varchar(250) NOT NULL,

contractor\_name varchar(250) NOT NULL,

contractor\_address varchar(250) NOT NULL,

contractor\_city varchar(250) NOT NULL,

contractor\_state varchar(250) NOT NULL,

contractor\_zip varchar(250) NOT NULL,

contractor\_phone varchar(250) NOT NULL

)

CREATE TABLE Departments(

dept\_id varchar(250) NOT NULL,

name varchar(2500) NOT NULL,

phone varchar(250) NOT NULL

)

CREATE TABLE Employee (

Employee\_id varchar(250) NOT NULL,

first\_name text NOT NULL,

last\_name text NOT NULL,

email varchar(250) NOT NULL,

SSN varchar(300) NOT NULL,

street\_address varchar(250) NOT NULL,

city varchar(250) NOT NULL,

state varchar(250) NOT NULL,

zip varchar(250) NOT NULL,

department\_id varchar(250) NOT NULL,

building\_assigned varchar(250) NOT NULL,

contractor\_id varchar(250) NOT NULL

)

Question1 / continue

INSERT INTO Building (Building\_id, name) VALUES

(112, 'Building Two'),

(113, 'Building Three'),

(114, 'Building Four'),

(115, 'Building Five');

INSERT INTO Contractor (contractor\_id, contractor\_name, contractor\_address, contractor\_city, contractor\_state, contractor\_zip, contractor\_phone) VALUES

(1001, 'BrainSphere', '8213 Clyde Gallagher Crossing', 'Asheville', 'North Carolina', 28815, '828-113-8262'),

(1002, 'Fliptune', '02154 Arkansas Way', 'Toledo', 'Ohio', 43635, '419-832-4576'),

(1003, 'Quimm', '4981 Grim Lane', 'Atlanta', 'Georgia', 31199, '404-875-9906'),

(1004, 'Thoughtstorm', '06 Ronald Regan Way', 'Akron', 'Akron', 44321, '330-554-5929'),

(1005, 'Zoonder', 'Zoonder', 'Denver', 'Denver', 80228, '303-698-2325');

INSERT INTO Departments (dept\_id, name, phone) VALUES

(1004, 'Animal Feeding', ''),

(1005, 'Veterinarians', ''),

(1006, 'Janitorial\r\n', ''),

(1007, 'Maintenance', '');

INSERT INTO Employee (Employee\_id, first\_name, last\_name, email, SSN, street\_address, city, state, zip, department\_id, building\_assigned, contractor\_id) VALUES

(1, 'Costa', 'Benediktovich', 'cbenediktovich29@fastcompany.com', '152-40-7191', '8 Hudson Court', 'Charlotte', 'Charlotte', '28210', 1004, 114, 1001),

(2, 'Silvanus', 'McIlroy', 'smcilroy1u@github.com', '242-90-2085', '1780 Trailsway Court', 'Waltham', 'Massachusetts', '02453', 1005, 112, 1001),

(3, 'Reamonn', 'Ibotson', 'ribotson1x@nsw.gov.au', '761-25-8048', '41192 Debra Place', 'Birmingham', 'Alabama', '35279', 1004, 113, 1002),

(4, 'Daniele', 'McGeouch', 'dmcgeouch2@pbs.org', '771-73-4479', '71943 Sunfield Pass', 'Bethesda', 'Maryland', '20892', 1004, 115, 1003),

(5, 'Jerrold', 'Bertomieu', 'jbertomieu10@virginia.edu', '807-34-0339', '030 Burrows Park', 'Wichita', 'Kansas', '67260', 1006, 113, 1004),

(6, 'Midge', 'Conti', 'mconti27@addthis.com', '669-78-4487', '311 Mariners Cove Park', 'Portland', 'Oregon', '97232', 1006, 114, 1004),

(7, 'Arabelle', 'Muck', 'amuck1s@ucoz.com', '726-75-3474', '33 Eastwood Alley', 'Pensacola', 'Florida', '32511', 1006, 115, 1005),

(8, 'Justinian', 'Sowerbutts', 'jsowerbutts2j@cdc.gov', '333-94-8309', '5 Hoepker Drive', 'Bozeman', 'Montana', '59771', 1007, 115, 1005);

**Answer Question 1/ end**

Answer Question 2

ALTER TABLE Building

ADD PRIMARY KEY (Building\_id);

ALTER TABLE Contractor

ADD PRIMARY KEY (contractor\_id);

ALTER TABLE Departments

ADD PRIMARY KEY (dept\_id);

ALTER TABLE Employee

ADD PRIMARY KEY (Employee\_id),

ALTER TABLE Employee

ADD FOREIGN KEY (Contractor\_ID) REFERENCES Contractor(Contractor\_ID);

ALTER TABLE Employee

ADD FOREIGN KEY (Department\_ID) REFERENCES Departments(Dept\_ID)

ALTER TABLE Employee

ADD FOREIGN KEY (Building\_assigned) REFERENCES Building(Building\_ID)

Answer question 3

ALTER TABLE Departments CHANGE name VARCHAR(2500) CHARACTER SET utf8mb4 COLLATE utf8mb4\_general\_ci NOT NULL;

Answer Question 4

ALTER TABLE Employee

ADD CONSTRAINT Digiconstraint

CHECK (state like '[AL,MD,MA,MT,NC,FL,OR]')

Correct:

ALTER TABLE Employee

ADD CONSTRAINT Digiconstraint

CHECK (state like '[A-Z](2)')

Answer Question 5

11:36:28 AMStarted executing query at Line 1

Msg 208, Level 16, State 1, Line 1

Invalid object name 'employees'.

Comment: table employees does not exist. My table name is employee, not employees.

11:39:57 AMStarted executing query at Line 1

Msg 213, Level 16, State 1, Line 1

Column name or number of supplied values does not match table definition.

insert into employee (Employee\_id,contractor\_id, fisrt\_NAME,last\_NAME, email,SSN,Street\_address,City, state,zip, department\_id, building\_assigned )

values ('1','John','Doe','jdoe@aol.com','123-456-7890','1234 Main Street','Any Town','VT','12345',null,2,3);

insert into DEPARTMENTS (dept\_id,NAME,phone )

values ('001','animal feeding','828-113-8262');

Answer Question 6

SELECT first\_name, last\_name

INTO test

from Employee

WHERE Employee.contractor\_ID=1001

Answer Question 7

insert into test2

(name)

select CONCAT(First\_name, Last\_name )

AS name

from Employee

WHERE Employee.contractor\_ID=1001

Graphical user interface, application

Description automatically generated

Answer Question 8

DELETE from Employee

where Employee.contractor\_id=5