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```
-- Assuming 'Facilities' already exists without a proper foreign key setup
ALTER TABLE Facilities ADD COLUMN ParkFacilityID INT;
ALTER TABLE Facilities
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  -- Assuming ParkID for Central Park is 1; adjust based on actual ID INSERT INTO Facilities (ParkID, FacilityName) VALUES (1. Playground'), (1. Playground'), (1. Platroom'), (2. Restroom'), (2. Plania area'), (3. Plania area'), (4. Plania area'), (5. Plania area'), (6. Plania area'), (6. Plania area'), (7. Plania area'), (8. Plania area'), (9. Plania are
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           INSERT INTO ParkFacilities (FacilityName)
VALUES ('Playground'), ('Bestroom'), ('Picnic area'), ('Bike Path');
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         -- Insert park info
INSERT INTO Parks Info (ParkName, Facilities) VALUES
("Central Park", "Playground, Restroom, Picnic area"),
("Liberty Park", "Restroom, Picnic area"),
("Riverside Park", "Playground, Bike Path");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               -- Normalizing to ZNF: Create ParkFacilities table CREATE TABLE PARKFacilities (
FacilityID SERIAL PRIMARY KEY,
FacilityName VARCHAR(255)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          -- Normalizing to INF: Create facilities table
CREATE TABLE Facilities (
FacilityID SERIAL PRIMARY KEV,
ParkID INT,
PacilityMane VARCHAR(255),
FOREIGN KEY (ParkID) REFRERNCES Parks(ParkID)
                                                                                                                                                                                                                                                                                                                                                             -- Create table for information about parks
CREATE TABLE Parks Info (
ID SERIAL PRIMARY KEY,
Parkhame VARCHAR(255),
Facilities VARCHAR(255)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                -- Normalizing to INF: Create parks table
CREATE TABLE Park?
ParkID SERIAL PRIMARY KEY,
ParkName VARCHAR(255)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            -- Populate parks table
INSERT INTO Parks (ParkName)
SELECT DISTINCT ParkName FROM Parks_Info;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      -- Check table
SELECT DISTINCT parkname FROM parks;
sudo -u postgres psql
CREATE DATABASE dataNorm;
\q
sudo -u postgres psql dataNorm
CREATE EXTENSION postgis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ::
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ADD CONSTRAINT fk parkfacilityid FOREIGN KEY (ParkFacilityID) REFERENCES ParkFacilities(FacilityID);

-- Update facilities to reference parkfacilities
 -- Update facilities
 -- SET Parkfacility
 - SELCT FacilityID FROM ParkFacilities WHERE FacilityName = Facilities.FacilityName);

-- Cleanup redudant columns ALTER TABLE Facilities DROP COLUMN FacilityName;