---x-- Tables related to Survey Company - START --x---

CREATE TABLE mpa.survey\_company (

srvy\_co\_id SERIAL PRIMARY KEY,

company\_name CHARACTER VARYING(60) NOT NULL UNIQUE, -- Company Name (unique identifier)

address VARCHAR(255),

city VARCHAR(100),

state VARCHAR(50),

zipcode VARCHAR(5) CHECK (zipcode ~ '^([0-9]{5})?$'), -- Enforces US zip code format

country VARCHAR(100),

phone VARCHAR(20) UNIQUE,

email VARCHAR(100) UNIQUE, -- Ensures unique email addresses

website VARCHAR(255),

notes TEXT,

-- fields added on 19th March

-- triang\_survey BOOLEAN, -- (Removed in 21st March)Does this survey co provide Triangulation survey or not

-- alter table mpa.survey\_company drop column triang\_survey;

-- gps\_survey BOOLEAN -- (Removed in 21st March) Does this survey co provide GPS based survey or not

-- alter table mpa.survey\_company drop column gps\_survey;

-- fields added on 21st March

triang\_service BOOLEAN -- Does this survey company provide Triangulation Survery service.

-- Types of surveys supported by co is taken care in Junction table with survey\_type

-- alter table mpa.survey\_company add column triang\_service boolean;

);

COMMENT ON TABLE mpa.survey\_company IS 'Survey companies master data.'

CREATE TABLE mpa.survey\_service\_area (

service\_area\_id SERIAL PRIMARY KEY,

srvy\_co\_id INTEGER REFERENCES mpa.survey\_company(srvy\_co\_id) NOT NULL, -- Foreign key to survey\_company table

county VARCHAR(100),

city VARCHAR(100),

state VARCHAR(50),

zipcode VARCHAR(5) CHECK (zipcode ~ '^([0-9]{5})?$') -- Enforces US zip code format

);

COMMENT ON TABLE mpa.survey\_service\_area IS 'Areas in which services are provided by a Survey Company.';

CREATE TABLE mpa.survey\_type (

srvy\_type\_id SERIAL PRIMARY KEY,

srvy\_type\_name VARCHAR(100) NOT NULL UNIQUE, -- Descriptive name of the survey type

description TEXT -- Optional field for detailed description

);

COMMENT ON TABLE mpa.survey\_type IS 'Survey type master data';

-- Junction table for Survey Company & Survey Type

CREATE TABLE mpa.survey\_company\_survey\_type (

srvy\_co\_id INTEGER,

srvy\_type\_id INTEGER,

PRIMARY KEY (srvy\_co\_id, srvy\_type\_id),

FOREIGN KEY (srvy\_co\_id) REFERENCES mpa.survey\_company(srvy\_co\_id),

FOREIGN KEY (srvy\_type\_id) REFERENCES mpa.survey\_type(srvy\_type\_id)

);

COMMENT ON TABLE mpa.survey\_company\_survey\_type IS 'Junction table for Survey Company & Survey Type';

CREATE TABLE mpa.surveyor (

surveyor\_id SERIAL PRIMARY KEY,

surveyor\_licence\_id VARCHAR(10) NOT NULL UNIQUE,

first\_name VARCHAR(50) NOT NULL,

last\_name VARCHAR(50) NOT NULL,

email VARCHAR(100) UNIQUE, -- Ensures unique email addresses

phone VARCHAR(20) UNIQUE,

srvy\_co\_id INTEGER REFERENCES mpa.survey\_company(srvy\_co\_id) NOT NULL, -- Foreign key to survey\_company table

-- fields added on 19th March

geodetic\_control BOOLEAN, -- Does this surveyor have expertise in Geodetic Control survey

historic\_preservation BOOLEAN -- Does this surveyor have expertise in Historic Preservation survey

);

COMMENT ON TABLE mpa.surveyor IS 'Surveyor master data.';

========================================================================

Sample data

INSERT INTO mpa.survey\_company (company\_name, address, city, state, zipcode, country, phone, email, website, notes, triang\_service)

VALUES

('ABC Surveyors', '123 Main St', 'Anytown', 'CA', '90210', 'USA', '555-123-4567', 'info@abcsurveyors.com', 'www.abcsurveyors.com', 'Reliable survey firm with extensive experience, ensuring accurate property assessments for mortgage approval.', TRUE),

('XYZ Land Surveying', '456 Elm St', 'Otherville', 'NY', '10001', 'USA', '555-987-6543', 'info@xyzlandsurveying.com', 'www.xyzlandsurveying.com', 'Efficient surveying services expedite mortgage processes, providing precise data and reliable documentation for lenders.', TRUE),

('LMN Geomatics', '789 Oak St', 'Anycity', 'TX', '75001', 'USA', '555-321-0987', 'info@lmngeomatics.com', 'www.lmngeomatics.com', 'Trusted survey company offers thorough inspections, facilitating smooth mortgage transactions with detailed property evaluations.', FALSE);

INSERT INTO mpa.survey\_service\_area (srvy\_co\_id, county, city, state, zipcode)

VALUES

(1, 'Los Angeles County', 'Los Angeles', 'California', '90001'),

(1, 'San Francisco County', 'San Francisco', 'California', '94102'),

(3, 'Cook County', 'Chicago', 'Illinois', '60601'),

(1, 'Kings County', 'Brooklyn', 'New York', '11201'),

(2, 'Harris County', 'Houston', 'Texas', '77001'),

(2, 'Miami-Dade County', 'Miami', 'Florida', '33101'),

(2, 'Dallas County', 'Dallas', 'Texas', '75201'),

(2, 'King County', 'Seattle', 'Washington', '98101');

INSERT INTO mpa.survey\_type (srvy\_type\_name, description)

VALUES

('Boundary Survey', 'Determines the legal boundaries of a property.'),

('ALTA Survey', 'American Land Title Association survey, used for various real estate transactions.'),

('Elevation Certificate', 'Measures the elevation of a property relative to a flood hazard zone.'),

('FEMA Elevation Certificate', 'Federal Emergency Management Agency (FEMA) - used in floodplain mapping and flood risk analysis'),

('Site Improvement Survey', 'Surveys existing improvements on a property.'),

('Triangulation survey', 'Method using triangles to measure distances, angles, and locations accurately for mapping'),

('GPS survey', 'Utilizes satellite technology for precise property mapping, aiding mortgage approval through accurate location data.');

INSERT INTO mpa.surveyor (surveyor\_licence\_id, first\_name, last\_name, email, phone, srvy\_co\_id, geodetic\_control, historic\_preservation)

VALUES

('S123456', 'John', 'Doe', 'johndoe@example.com', '123-456-7890', 1, TRUE, FALSE),

('S789012', 'Jane', 'Smith', 'janesmith@example.com', '987-654-3210', 2, FALSE, TRUE),

('S345678', 'Alice', 'Johnson', 'alicejohnson@example.com', '555-123-4567', 1, TRUE, TRUE),

('S901234', 'Bob', 'Williams', 'bobwilliams@example.com', '444-987-6543', 3, FALSE, FALSE);

------------------- Survey Company END -------------------------