**Prompt 1**

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

**Prompt 2**

USE finalproject;

/\*Use zero fill on zip to make sure leading zeros do not disappear. \*/

CREATE TABLE users

(userid INT PRIMARY KEY AUTO\_INCREMENT,

name VARCHAR(100),

username VARCHAR(20),

address VARCHAR(300),

city VARCHAR(100),

state VARCHAR(2),

zip MEDIUMINT(5) ZEROFILL)

;

CREATE TABLE locations

(itemid INT PRIMARY KEY AUTO\_INCREMENT,

type INT,

description VARCHAR(500),

lng REAL,

lat REAL)

;

CREATE TABLE photographs

(photoid INT PRIMARY KEY,

locationid INT)

;

A screenshot of a computer

Description automatically generated

**Prompt 3 - Alter Tables**

ALTER TABLE locations MODIFY type INT NOT NULL;

ALTER TABLE locations MODIFY description VARCHAR(500) NOT NULL;

ALTER TABLE locations MODIFY lng REAL NOT NULL;

ALTER TABLE locations MODIFY lat REAL NOT NULL;

ALTER TABLE users MODIFY name VARCHAR(100) NOT NULL;

ALTER TABLE users MODIFY username VARCHAR(20) NOT NULL;

ALTER TABLE photographs MODIFY photoid INT NOT NULL;

ALTER TABLE photographs MODIFY locationid INT NOT NULL;

A screenshot of a computer

Description automatically generated

**Prompt 4 – Create Index**

CREATE UNIQUE INDEX id ON users (userid)

;

CREATE UNIQUE INDEX photoid ON photographs (photoid)

;

A screenshot of a computer

Description automatically generated

Prompt 5

INSERT INTO users (name, username, address, city, state, zip)

VALUES ('Bonnie Buntcake', 'bbunt', '6709 Wonder Street', 'Wonderbread', 'OH', 46106),

('Sam Smarf', 'ssmarf', '356 A Street', 'Beefy', 'PA', 19943),

('Wendy Grog', 'wgrog', '900 Star Street', 'Mary', 'MD', 21340),

('Joe Jogger', 'jjogger', '183713 N North Street', 'Norther', 'WV', 51423)

;

A screenshot of a computer

Description automatically generated