Create the DB & tables:

-- Create the new database

DROP DATABASE IF EXISTS parkease;

CREATE DATABASE parkease;

USE parkease;

-- Create users table

CREATE TABLE users (

user\_id INT(11) NOT NULL AUTO\_INCREMENT,

full\_name VARCHAR(100) NOT NULL,

email VARCHAR(100) NOT NULL,

phone VARCHAR(20) NOT NULL,

password VARCHAR(255) NOT NULL,

created\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

updated\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP,

PRIMARY KEY (user\_id),

UNIQUE KEY (email)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

-- Create parking\_locations table

CREATE TABLE parking\_locations (

location\_id INT(11) NOT NULL AUTO\_INCREMENT,

location\_name VARCHAR(100) NOT NULL,

address VARCHAR(255) NOT NULL,

total\_slots INT(11) NOT NULL,

available\_slots INT(11) NOT NULL,

created\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

updated\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP,

price\_per\_hour DECIMAL(10,2) NOT NULL DEFAULT 10.00,

PRIMARY KEY (location\_id)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

-- Create parking\_sections table

CREATE TABLE parking\_sections (

section\_id INT(11) NOT NULL AUTO\_INCREMENT,

location\_id INT(11) NOT NULL,

section\_name VARCHAR(10) NOT NULL,

total\_sports INT(11) NOT NULL,

created\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

updated\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP,

PRIMARY KEY (section\_id),

FOREIGN KEY (location\_id) REFERENCES parking\_locations(location\_id) ON DELETE RESTRICT ON UPDATE RESTRICT

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

-- Create parking\_spots table

CREATE TABLE parking\_spots (

spot\_id INT(11) NOT NULL AUTO\_INCREMENT,

location\_id INT(11) NOT NULL,

section\_id INT(11) NOT NULL,

spot\_name VARCHAR(20) NOT NULL,

spot\_type VARCHAR(20) NOT NULL,

status ENUM('vacant', 'occupied', 'maintenance', 'available') NOT NULL DEFAULT 'vacant',

occupant VARCHAR(100),

created\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

updated\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP,

PRIMARY KEY (spot\_id),

FOREIGN KEY (location\_id) REFERENCES parking\_locations(location\_id) ON DELETE RESTRICT ON UPDATE RESTRICT,

FOREIGN KEY (section\_id) REFERENCES parking\_sections(section\_id) ON DELETE RESTRICT ON UPDATE RESTRICT

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

-- Create bookings table

CREATE TABLE bookings (

booking\_id INT(11) NOT NULL AUTO\_INCREMENT,

booking\_reference VARCHAR(20) NOT NULL,

user\_id INT(11),

location\_id INT(11) NOT NULL,

spot\_id INT(11) NOT NULL,

car\_number VARCHAR(20) NOT NULL,

booking\_date DATE NOT NULL,

start\_time TIME NOT NULL,

duration\_hours INT(11) NOT NULL,

end\_time TIME NOT NULL,

status ENUM('active', 'complete', 'cancelled') DEFAULT 'active',

created\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

updated\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP,

total\_amount DECIMAL(10,2),

payment\_status ENUM('pending', 'paid', 'failed') DEFAULT 'pending',

payment\_reference VARCHAR(100),

payment\_date TIMESTAMP NULL,

PRIMARY KEY (booking\_id),

FOREIGN KEY (user\_id) REFERENCES users(user\_id) ON DELETE RESTRICT ON UPDATE RESTRICT,

FOREIGN KEY (location\_id) REFERENCES parking\_locations(location\_id) ON DELETE RESTRICT ON UPDATE RESTRICT,

FOREIGN KEY (spot\_id) REFERENCES parking\_spots(spot\_id) ON DELETE RESTRICT ON UPDATE RESTRICT

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;  
  
Feed into the DB:

-- Insert parking spots for each section

INSERT INTO parking\_spots

(location\_id, section\_id, spot\_name, spot\_type, status)

VALUES

-- Shahapur spots

(1, 1, 'A1', 'standard', 'available'),

(1, 1, 'A2', 'standard', 'available'),

(1, 1, 'A3', 'standard', 'available'),

(1, 1, 'A4', 'EV', 'available'),

(1, 1, 'A5', 'premium', 'available'),

(1, 2, 'B1', 'standard', 'available'),

(1, 2, 'B2', 'standard', 'available'),

(1, 2, 'B3', 'standard', 'available'),

(1, 2, 'B4', 'EV', 'available'),

(1, 2, 'B5', 'premium', 'available'),

-- Vadagoan spots

(2, 3, 'A1', 'standard', 'available'),

(2, 3, 'A2', 'standard', 'available'),

(2, 3, 'A3', 'standard', 'available'),

(2, 3, 'A4', 'EV', 'available'),

(2, 3, 'A5', 'premium', 'available'),

(2, 4, 'B1', 'standard', 'available'),

(2, 4, 'B2', 'standard', 'available'),

(2, 4, 'B3', 'standard', 'available'),

(2, 4, 'B4', 'EV', 'available'),

(2, 4, 'B5', 'premium', 'available'),

-- Tilakwadi spots

(3, 5, 'A1', 'standard', 'available'),

(3, 5, 'A2', 'standard', 'available'),

(3, 5, 'A3', 'standard', 'available'),

(3, 5, 'A4', 'EV', 'available'),

(3, 5, 'A5', 'premium', 'available'),

(3, 6, 'B1', 'standard', 'available'),

(3, 6, 'B2', 'standard', 'available'),

(3, 6, 'B3', 'standard', 'available'),

(3, 6, 'B4', 'EV', 'available'),

(3, 6, 'B5', 'premium', 'available'),

-- Angol spots

(4, 7, 'A1', 'standard', 'available'),

(4, 7, 'A2', 'standard', 'available'),

(4, 7, 'A3', 'standard', 'available'),

(4, 7, 'A4', 'EV', 'available'),

(4, 7, 'A5', 'premium', 'available'),

(4, 8, 'B1', 'standard', 'available'),

(4, 8, 'B2', 'standard', 'available'),

(4, 8, 'B3', 'standard', 'available'),

(4, 8, 'B4', 'EV', 'available'),

(4, 8, 'B5', 'premium', 'available'),

-- Sadashiv nagar spots

(5, 9, 'A1', 'standard', 'available'),

(5, 9, 'A2', 'standard', 'available'),

(5, 9, 'A3', 'standard', 'available'),

(5, 9, 'A4', 'EV', 'available'),

(5, 9, 'A5', 'premium', 'available'),

(5, 10, 'B1', 'standard', 'available'),

(5, 10, 'B2', 'standard', 'available'),

(5, 10, 'B3', 'standard', 'available'),

(5, 10, 'B4', 'EV', 'available'),

(5, 10, 'B5', 'premium', 'available'),

-- Shivbasava nagar spots

(6, 11, 'A1', 'standard', 'available'),

(6, 11, 'A2', 'standard', 'available'),

(6, 11, 'A3', 'standard', 'available'),

(6, 11, 'A4', 'EV', 'available'),

(6, 11, 'A5', 'premium', 'available'),

(6, 12, 'B1', 'standard', 'available'),

(6, 12, 'B2', 'standard', 'available'),

(6, 12, 'B3', 'standard', 'available'),

(6, 12, 'B4', 'EV', 'available'),

(6, 12, 'B5', 'premium', 'available'),

-- Neharu nagar spots

(7, 13, 'A1', 'standard', 'available'),

(7, 13, 'A2', 'standard', 'available'),

(7, 13, 'A3', 'standard', 'available'),

(7, 13, 'A4', 'EV', 'available'),

(7, 13, 'A5', 'premium', 'available'),

(7, 14, 'B1', 'standard', 'available'),

(7, 14, 'B2', 'standard', 'available'),

(7, 14, 'B3', 'standard', 'available'),

(7, 14, 'B4', 'EV', 'available'),

(7, 14, 'B5', 'premium', 'available'),

-- Gandhi nagar spots

(8, 15, 'A1', 'standard', 'available'),

(8, 15, 'A2', 'standard', 'available'),

(8, 15, 'A3', 'standard', 'available'),

(8, 15, 'A4', 'EV', 'available'),

(8, 15, 'A5', 'premium', 'available'),

(8, 16, 'B1', 'standard', 'available'),

(8, 16, 'B2', 'standard', 'available'),

(8, 16, 'B3', 'standard', 'available'),

(8, 16, 'B4', 'EV', 'available'),

(8, 16, 'B5', 'premium', 'available');

-- Insert locations

INSERT INTO parking\_locations

(location\_name, address, total\_slots, available\_slots, price\_per\_hour)

VALUES

('Shahapur', 'Shahapur Main Road, Belagavi', 10, 10, 15.00),

('Vadagoan', 'Vadagoan Circle, Belagavi', 10, 10, 12.00),

('Tilakwadi', 'Tilakwadi Main Street, Belagavi', 10, 10, 18.00),

('Angol', 'Angol Junction, Belagavi', 10, 10, 10.00),

('Sadashiv nagar', 'Sadashiv nagar Complex, Belagavi', 10, 10, 20.00),

('Shivbasava nagar', 'Shivbasava nagar Market Area, Belagavi', 10, 10, 15.00),

('Neharu nagar', 'Neharu nagar Central, Belagavi', 10, 10, 12.00),

('Gandhi nagar', 'Gandhi nagar Plaza, Belagavi', 10, 10, 14.00);

-- Insert sections for each location

INSERT INTO parking\_sections

(location\_id, section\_name, total\_sports)

VALUES

-- Shahapur sections

(1, 'A', 5),

(1, 'B', 5),

-- Vadagoan sections

(2, 'A', 5),

(2, 'B', 5),

-- Tilakwadi sections

(3, 'A', 5),

(3, 'B', 5),

-- Angol sections

(4, 'A', 5),

(4, 'B', 5),

-- Sadashiv nagar sections

(5, 'A', 5),

(5, 'B', 5),

-- Shivbasava nagar sections

(6, 'A', 5),

(6, 'B', 5),

-- Neharu nagar sections

(7, 'A', 5),

(7, 'B', 5),

-- Gandhi nagar sections

(8, 'A', 5),

(8, 'B', 5);