## ASSIGNMENT-OL

Gi Deevena 19231139

Luslomer order Management box a bood Delivery Service

Cauale a database to handle customer orders, our

Poorking Management system for urban infrastruction

Design a database to marage positing spaces, vehicle entries, payments

and violations for an uban parking Pacility.

Requirements:

Cause tables for behicles, pooking spots, transactions, and violation ou cords. Write stored perocidous to manage parking spot suservations, payment paocessing, and violation tracking.

Implement triggers to automotically update spot availability and genuale

alerts for overslays.

Writ soll queries to analyze poorking trends, ocvenue generation, and violation frequency

Conceptual ER Diagram:

Vehicles

Vehicle\_id(pk)

license plate vehicle-type

owner\_name

owner - phone

owney-cmail

Parking Spots Spot-id (pk)

spot-number 5 pot-type

is-available

acitalo. N

N and and

A. WALL

and oldin

in aller

revolution

last-occupied

Wolations

Violation -d (PK)

vehick-id (FK) spotid (FK)

violation-type

violation-time

fine-amount Jusolval

Townsackions

transaction\_id (PK)

more Diogram

multiply (n.2)

Anorth American

AND THE ROLL

Contractions

Sent 1 - 13 14 3

version from the best of

Smit With

(30) - 24 miles

1. 2.

apply district

vehicle -id (FK)

Spot\_id (FK)

entry -time

payment - amount

payment-status



Vehicles
Vehicles—id (pk)
léncense—plate
Vehicle—type
owner—name
owner—phone
owner—email

Parking Spots

Spot-id (pk)

Spot-number (u)

Spot-hype

is-available

last-occupied

Violations
violation\_id (PK)
vehicle\_id (FK)
spot\_id (FK)
Violation\_type
violation\_time
Pine\_amount
Jusolved.

Townsactions
townsactions
townsactions
townsactions
(pk)
ve hich -id (pk)
spot-id (pk)
spot-id (pk)
Entry - time
exit-time
pay ment-amount
payment slatus

(April Bank)

State Commence of

April Malata

Days - Paris

72 511 34

## Logical ER Diogram

Vehicles
Vehiclesid(pe)
Vicense-plate
Vehicle-type
Owner-name
Owner-phone
Owner-email

Poorking Spots
spot\_id (pk)
spot\_number (u)
spot\_hype
is\_available
lasb\_occupied.

elane private

is, Thirthead

Townsactions
transaction-id (px)
vehicle—id (fx)
spot\_id (fx)
entry—time
Exit—time
payment—amount
payment—status

Violations
Violationsd (px)
Vehicle \_id (px)
Spot \_id (fx)
Violation -type
Violation\_time
Find -amount
sussived

```
Vehicles Toble
 CREAT TABLE Vehicles (
      vehicles of INT AUTO-INCREMENT PRIMARY KEY,
       license-plate VARCHAR (20) UNIQUE NOT NULL,
       vehicle-type ENUM (com), 'motorcycle', Tauck', Von') NOT NUL,
       CWNG-rame VARCHAR (100) NOT NULL,
       OWNEY_phone VARCHAR (15) NOT NULL
       Cwner-email VARCHAR (100) NOT NUL
Parking Spots Table
 CREATE TABLE Parking-5pots (
       5pd_id INT AUTO_INCREMENT PRIMARY KEY,
       spot_number VARCHAR (10) UNIQUE NOT NULL,
       Spot type ENUM ('Regular', 'Handicapped', 'electric', 'compact) NOT NULL,
        last-occupied TIMESTAMP MULL
Transactions Table
CREATE TABLE Townsactions (
       transaction-id INT AUTO-INCREMENT PRIMARY KEY,
       vehicle-id INT NOT NULL,
        Spot 1d INT NOT NULL,
        Employ-time TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
        Exit time TIMESTAMP NULL,
        payment_amount DECIMAL (10,2) NULL,
       payment_status ERIUM ('pending', 'completed', 'failed') DEFAULT 'pending',
       FOREIGN KEY (vehicle_id) REPERENCES vehicles (vehicle_id),
       FOREIGN KEY (spot_8d) REFERENCES Parking-spots(spot_8d).
  );
```

Violations Table

sido estans.

CREATE TABLE Violations (

A SECTION DISTRI violation\_id INT AUTO-PAKREMENT PRIMARY KEY, vehicle ?d INT NOT NULL, spot\_9d INT NOT NULL, Violation-type ENUM ('overstay', 'Illegal Spot', Expired Ticket') NOT.

Violation\_time TIMESTAMP DEFAULT CURRENT\_TIMESTAMP, fine - amount DECIMAL (10,2) NOT NULL,

susolved BOOLEAN DEFAULT FALSE,

what we have a standard acquired to the comment of the comment of

FOREIGN KET (vehicle\_id) REFERENCES rehicles (vehicle\_id), FOREIGN KEY (Spot\_id) REFERENCES powking -spots (spot\_id)

THE THE THE PROPERTY OF THE PARTY OF THE PAR

LANGE THE CONTRACT OF THE PARTY THE PARTY OF THE PARTY OF

Traff AMMERITAL Fridows prof

);

sensoctions Tobs

EN PROPERT BROWNS AND JOHN THE TRANSPORTER

COMMANDA SAME AND MON TON TON THE PERSON

CARREST CONTROL AND STATE STAT THE MENT STREET MAKES

and the same same as the same of the same of 

The second was the contract of the second was the second