Assignment.

Name: G. Deevena

Reg No :- 192311391

course code :- csA0593

Course Name: Database Management System

ASSIGNMENT-01. G. Dievena

Customer order Management Por a Road Delivery Service Cauale a database to handle customer orders, our Hooking Management system for urban infrastruction Design a database to manage poorking spaces, vehicle entries, payments and violations for an urban parking Pacility. Requirements:

Causte tables for Vehicles, pooking spots, transactions, and violation outcords. While stored porocidous to manage parking spot suservations,

payment paocessing, and violation tracking.

Implement triggers to automotically update spot availability and genuate

alerts for overslays.

Writ soll queries to analyze poorking trends, sevenue 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

spot-type

is-avoilable

last-occupied

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Wolations

Violation =d (PK)

vehick aid (FR)

spot_1d (FK)

Violation-type

violation-time

Fine-amount

bollosuc

Townsackions

transaction_id (PK)

morpoid 8; logico

Const. Date

are Arrais Pres

A MARKET

Good Sale of

vehicle -id (FK)

Spot_id (FK)

entry-time

Payment - amount

payment-status

ER Diagram Physical

Vehicles Vehicles_id (pk) lèncense-plate vehicle-type owner-name owner - phone owner-email

Panking Spots spot_id (pk) Spot_number (U) spot-type is-available last - occupied

continut in

abbrio ellatika

below that conduction for the print of the Violations violation_id (PK) vehicle -?d (FK) spot_9d (FK) violation-type violation_time fine - amount Jusolved.

Townsactions transaction_id (px) vehicle_id (FK) 3pot_10 (FK) Entry - time Exit-time pay ment-amount payment slahs

11.2

Logical ER Diagram

vehicles rehicles id(px) license-plate re hich-type owner _name owner-phone owney_email

Poorking Spots 5 pol-10 (ph) Spot_number (U) Spot-type 95-available last_occupied

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Tomsactions transaction_id (px) vehicle -id (FK) spot_id (FK) pritru_temp

Violations violationed (px) vehicle _9d (FK) spot_9d (FK) violation -type

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Vehicles Table
CREAT TABLE Vehicles (
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which and INT AUTOI INCREMENT PRIMARY KEY, license-plate VARCHAR (20) UNIQUE NOT NULL, Vehicle-type ENUM (com', 'motorcycle', "Tauck', Van') NOT NUL, Owner-rame VARCHAR (100) NOT NULL, OWNEY_ Phone VARCHAR (15) NOT NULL, Owner-email WARCHAR (15) NOT NULL, VARCHAR (100) NOT NULL

Tabileta Ar

Corner day a habe appropriate (b) shaked for the light CREATE TABLE Parking-Spots (5pd_9d INT AUTO_INCREMENT PRIMARY KEY, Spot_number VARCHAR (10) UNIQUE NOT NULL, Spot type ENUM ('Regulear', I Handicapped) 'electric', 'compact) NOT NULL, last-occupied TIMESTAMP MULL sweeplagmes o ngen action allowed pullous its out

Taransactions Table

CREATE TABLE Tagnsactions (transaction-id INT AUTO-INCREMENT PRIMARY KEY, vehicle -id INT NOT NULL, Spot- 18 INT NOT NULL, Embry - time TIMESTAMP DEFAUIT CURRENT_TIMESTAMP, Exit-time TIMESTAMP NULL, payment_amount DECIMAL (10,2) NULL, payment_status ERIUM ('pending', 'completed', 'failed') DEFAULT 'rending', FOREIGIN KEY (vehicle_id) REFERENCES vehicles (vehicle_id), FOREIGN KEY (spot-9d) REFERENCES Parking-spots(spot-9d).),

Violations Table

CREATE TABLE Violations (

Jean by Ham his violation_id INT AUTO_TAKREMENT PRIMARY KEY, Vehicle 9d INT NOT NULL, spot_id INT NOT NULL, Violation-type ENUM ('overstay', 'Illegal Spot', Expired Ticket') NOT. Violation-time TIMESTAMP DEFAULT CURRENT-TIMESTAMP, fine - amount DECIMAL (10,2) NOT NIULL, borloance BOOLEAN DEFAULT FALSE, FOREIGN KET (vehicle_id) REFERENCES rehicles (vehicle=id), FOREIGN KEY (Spot_9d) REFERENCES powking -spots (spot_9d)

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Conclusion:

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The design of a parkinguan in the state of t peaking Management system for urban intrastructure suspicues a comprutensive and well-structured database to efficiently handle various aspects of parking facility poorking spaces, vehicle entities, payments, violations. , ver veginglight a martis at

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