St Thomas Parking management system Final deliverable



GRADUATE PROGRAMS IN SOFTWARE

Database management system – SEIS 630

Authors:
Ethan Wang
Issa Prosper
Keveny Rosier
Sarija Janardhanan

Instructor's name: Dr. Jordan B. Barlow

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Changes made after the mid semester deliverable :

- 1. Updated the ER diagrams based on the feedback from Professor Dr Jordan Barlow
 - a. Changed the Dashboard entity to user
 - b. Created a separate entity for officer instead of having officer details in the ticket entity.
 - c. Changed the name of owner entity to permit holder
 - d. Removed the weather entity completely
 - e. Updated the DL# as the primary key for all the subtype entities of permit holder.
 - f. Created the below intersection table entities
 - i. Adminticket
 - ii. Ticketticketingofficer
 - iii. Adminviolation
- 2. The parenthetical format updated with the changes made in the entity diagram

Added the below tables

- a. ADMINVIOLATION (USERID, VIOLATION#)
- b. PARKINGLOCATIONADMIN (USERID, PARKINGNAME)
- c. ADMINTICKET (CITATION#, USERID)
- d. CARPERMITHOLDER (VIN#, DL#)
- 3. Created an sql script for create tables and inserting dummy data into the table.
- 4. Created an sql script with queries for following reports
 - a. Report 1 Vehicles currently in a given parking lot
 - **b.** Report 2 List of lots with current cars and capacity
 - c. Report 3 Outstanding parking violation tickets
 - d. Report 4 Parking violation ticket history by status viewed for a given date range
 - e. Report 5 Personal Profiles
 - f. Report 6 Permits issued by semester
 - g. Report 7 Active Permits by Type

Learnings:

Hands on experience working in teams Hands on experience with debugging the errors Experience with DDL/DML

List of tables in parenthetical format:

- 1) PARKINGLOCATION (*ParkingName*, Capacity, Address, Safetyinfo, LotStatus)
- **2)ADMIN** (*UserID*, UserAccess, UserType, Login, Password)
- 3)**PERMITHOLDER** (*DL#*, Firstname, Lastname, Occupation, Email, Phone#)
- **4)PERMIT** (*PermitID*, DateStart, ExpirationDate, Status, Price, *DL#*)
- **5)CAR** (*VIN#*, PLATE#, MAKE, MODEL, COLOR, OWNERFIRSTNAME, OWNERLASTNAME, *PERMITID*, *PARKINGNAME*)
- **6)TICKETINGOFFICER** (*OFFICERID*, FIRSTNAME, LASTNAME)
- **7)NOTIFICATION** (*NOTIFICATIONID*, RECEIPIENT, TYPES, NotificationMode, DateTimesent, NotificationCOUNT, notificationstatus, *DL#*)
- **8)TICKET** (<u>Citation#,</u> Plate#, TicketIssue, Description, Amount_paid, ParkingName, *PermitID*, *VIN#*)
- 9) VIOLATION (*Violation#*, Fine Amount, ViolationType, ViolationWarning, *Citation#*)
- **10)TICKETTICKETINGOFFICER** (*OFFICERID*, *Citation#*)
- 11) EMPLOYEE (*DL#*, EMPLOYEEID, Employeetype, Employeelevel)
- **12)PROFESSOR** (*DL#*, STATUS, Depname, OFFICE#, ADDRESS)
- 13)STUDENT (*DL#*, STUDENTID, ADDRESS, COURSE, MAJOR, LIVINGSTATUS)
- **14)VISITOR** (*DL#*, VOUCHER)
- **15)ADMINVIOLATION** (*USERID*, *VIOLATION#*)
- **16)PARKINGLOCATIONADMIN** (*USERID*, *PARKINGNAME*)
- 17)ADMINTICKET (CITATION#, USERID)
- 18)CARPERMITHOLDER (VIN#, DL#)

E R DIAGRAM

