Compound Security System

A picture containing building, road, outdoor, resort

Description automatically generated

Team Members:

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Entity relationship diagram (ERD): -

Diagram

Description automatically generated

Creation statements: -

CREATE DATABASE Compundsys;

CREATE TABLE Compundsys.Employees (

ID INT,

SSN INT NOT NULL UNIQUE,

fullname VARCHAR(20) NOT NULL,

salary INT NOT NULL,

DOB DATE NOT NULL,

JobTitle VARCHAR(20) NOT NULL,

Manage\_ID INT,

Plate\_No VARCHAR(8),

PRIMARY KEY (ID),

FOREIGN KEY (Plate\_No)

REFERENCES CAR (Plate\_No),

FOREIGN KEY (Manage\_ID)

REFERENCES Employees (ID)

);

CREATE TABLE Compundsys.CAR (

Color VARCHAR(17),

Model VARCHAR(17),

Plate\_No VARCHAR(8),

PRIMARY KEY (Plate\_No)

);

CREATE TABLE Compoundsys.EMP\_Phone (

ID INT,

Phone INT UNIQUE,

FOREIGN KEY (ID)

REFERENCES Employees (ID),

PRIMARY KEY (ID , Phone)

);

CREATE TABLE Compoundsys.EMP\_Qualifications (

ID INT,

Qualifications VARCHAR(30),

FOREIGN KEY (ID)

REFERENCES Employees (ID),

PRIMARY KEY (ID , Qualifications)

);

CREATE TABLE Compoundsys.Clients (

ID INT NOT NULL,

SSN INT NOT NULL,

FName VARCHAR(17) NOT NULL,

Service\_ID INT,

Plate\_No VARCHAR(8),

PRIMARY KEY (ID),

FOREIGN KEY (Service\_ID)

REFERENCES Clients (ID),

FOREIGN KEY (Plate\_No)

REFERENCES CAR (Plate\_No)

);

CREATE TABLE Compoundsys.Client\_Phone(

ID INT,

Phone INT,

FOREIGN KEY (ID)

REFERENCES Employees (ID),

PRIMARY KEY (ID, Phone)

);

CREATE TABLE Compoundsys.Contract(

Contract\_No VARCHAR(29),

Contract\_Type VARCHAR(20) Not Null,

Start\_Date DATE Not Null,

PRIMARY KEY (Contract\_No)

);

CREATE TABLE Compoundsys.Units (

Unit\_No INT,

Unit\_Type VARCHAR(20) NOT NULL,

Street VARCHAR(20),

Zone VARCHAR(20),

Scurity\_ID INT,

PRIMARY KEY (Unit\_No),

FOREIGN KEY (Scurity\_ID)

REFERENCES Employees (ID)

);

CREATE TABLE Having\_Contract(

Contract\_No VARCHAR(20),

Client\_ID INT,

Unit\_No INT,

FOREIGN KEY (Contract\_No)

REFERENCES Contract (Contract\_No),

FOREIGN KEY (Client\_ID)

REFERENCES Clients (ID),

FOREIGN KEY (Unit\_No) REFERENCES Units (Unit\_No) );