**ARINDA HILLARY**

**DBMS**

**PROJECT: PART 1**

**3/11/2024**

**﻿1) Draw the ER diagram for the EasyDrive School of Motoring that you find in paragraph**

**B.2 in Appendix B of the book.**

**A diagram of a computer

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**﻿2) Translate the ER diagram to tables (logical DB design).**

**Office(**officeID,officeName,city,zipCode,managerID, phone**)**

Primary Key: officeID

Foreign Key: managerId REFERENCES Staff(staffID)

Alternate Key: managerID

**Staff(**staffID,SSN,fName,lName,position,gender,dob,city,zipCode,phone,officeID**)**

Primary Key: staffID

Alternate Key: SSN

Foreign Key:  officeId REFERENCES Office(officeID)

**Car(** carID, licenseNo, model,make,year, staffID**)**

Primary Key: carID

Foreign Key: staffID references Staff(staffID)

**Registration(**formID, registrationDate, clientID, officeID**)**

Foreign Key**:** clientID references Client (clientID)

Foreign Key:  officeID references Office(officeID)

**Client(**clientID,fName,lName,dob,phone,city,zipCode, tpStaffID**)**

Primary Key: clientID

Foreign Key: tpStaffID  REFERENCES Staff(staffId)

**Inspection(**inspectionID, inspectionDate, comment, carID**)**

Primary Key: inspectionID

Foreign Key: carID references Car(carID)

**InterviewDetails(**clientID, interviewDate,interviewTime,comments,staffID**)**

Primary Key: **(**clientID, StaffID, interviewDate)

Foreign Key: clientID references Client(clientID)

Foreign Key: staffID references Staff(staffID)

**Lesson(**lessonID, lessonDate,startTime,topicCovered,clientID,staffID,mileage,instructorComments,lessonStatus**)**

Primary Key: lessonID

Foreign Key: clientID references Client (Client)

Foreign Key: staffID references Staff(staffID)

**DrivingTest(**testID, writtenScore,drivingScore,testDate,testTime, clientID, drivingStatus**)**

Primary Key:testID

Foreign Key:clientID references Client(clientID)

**TestReview(**instructorComments**)**

**﻿3) Normalize the above tables to the highest normal form that you can.**

**The tables in 2 are already normalized to 3NF.**

**﻿4) Input these tables into SQL Server and put some data into them (populate them).**

USE EasyDrive;

CREATE TABLE Staff (

staffID INT PRIMARY KEY,

SSN CHAR(11) UNIQUE,

fName VARCHAR(255),

lName VARCHAR(255),

position VARCHAR(255),

gender CHAR(1),

dob DATE,

city VARCHAR(255),

zipCode VARCHAR(10),

phone VARCHAR(15),

officeID INT,

);

CREATE TABLE Office (

officeID INT PRIMARY KEY,

officeName VARCHAR(255),

city VARCHAR(255),

zipCode VARCHAR(10),

managerID INT,

phone VARCHAR(15),

FOREIGN KEY (managerID) REFERENCES Staff(staffID)

);

CREATE TABLE Car (

carID INT PRIMARY KEY,

licenseNo VARCHAR(20),

model VARCHAR(255),

make VARCHAR(255),

year INT,

staffID INT,

FOREIGN KEY (staffID) REFERENCES Staff(staffID)

);

CREATE TABLE Client (

clientID INT PRIMARY KEY,

fName VARCHAR(255),

lName VARCHAR(255),

dob DATE,

phone VARCHAR(15),

city VARCHAR(255),

zipCode VARCHAR(10),

tpStaffID INT,

FOREIGN KEY (tpStaffID) REFERENCES Staff(staffID)

);

CREATE TABLE Registration (

formID INT PRIMARY KEY,

registrationDate DATE,

clientID INT,

officeID INT,

FOREIGN KEY (clientID) REFERENCES Client(clientID),

FOREIGN KEY (officeID) REFERENCES Office(officeID)

);

CREATE TABLE Inspection (

inspectionID INT PRIMARY KEY,

inspectionDate DATE,

comment TEXT,

carID INT,

FOREIGN KEY (carID) REFERENCES Car(carID)

);

CREATE TABLE InterviewDetails (

clientID INT,

interviewDate DATE,

interviewTime TIME,

comments TEXT,

staffID INT,

PRIMARY KEY (clientID, staffID, interviewDate),

FOREIGN KEY (clientID) REFERENCES Client(clientID),

FOREIGN KEY (staffID) REFERENCES Staff(staffID)

);

CREATE TABLE Lesson (

lessonID INT PRIMARY KEY,

lessonDate DATE,

startTime TIME,

topicCovered TEXT,

clientID INT,

staffID INT,

mileage INT,

instructorComments TEXT,

lessonStatus VARCHAR(50),

FOREIGN KEY (clientID) REFERENCES Client(clientID),

FOREIGN KEY (staffID) REFERENCES Staff(staffID)

);

CREATE TABLE DrivingTest (

testID INT PRIMARY KEY,

writtenScore INT,

drivingScore INT,

testDate DATE,

testTime TIME,

clientID INT,

drivingStatus VARCHAR(50),

FOREIGN KEY (clientID) REFERENCES Client(clientID)

);

CREATE TABLE TestReview (

testID INT PRIMARY KEY,

instructorComments TEXT,

FOREIGN KEY (testID) REFERENCES DrivingTest(testID)

);

Go

ALTER TABLE Staff ADD FOREIGN KEY (officeID) REFERENCES Office(officeID)

Go

--STAFF DATA

use EasyDrive

--OFFICE DATA

INSERT INTO Office (officeID, officeName, city, zipCode, managerID, phone) VALUES

(1, 'Glasgow HQ', 'Glasgow', 'G1 1XX', NULL, '555-1001'),

(2, 'Edinburgh Branch', 'Edinburgh', 'E1 3XX', NULL, '555-1002'),

(3, 'Aberdeen Branch', 'Aberdeen', 'AB10 1XG', NULL, '555-3001'),

(4, 'Inverness Branch', 'Inverness', 'IV1 1LY', NULL, '555-4001'),

(5, 'Dundee Branch', 'Dundee', 'DD1 4HN', NULL, '555-5001');

INSERT INTO Staff (staffID, SSN, fName, lName, position, gender, dob, city, zipCode, phone, officeID) VALUES

(1, '555-55-5555', 'John', 'Doe', 'Senior Instructor', 'M', '1970-01-01', 'Glasgow', 'G1 1XX', '555-0001', 1),

(2, '666-66-6666', 'Jane', 'Smith', 'Instructor', 'F', '1980-02-02', 'Glasgow', 'G1 2XX', '555-0002', 1),

(3, '777-77-7777', 'Jim', 'Beam', 'Instructor', 'M', '1990-03-03', 'Edinburgh', 'E1 3XX', '555-0003', 2),

(4, '888-88-8888', 'Julia', 'Roberts', 'Administrator', 'F', '1975-04-04', 'Glasgow', 'G1 4XX', '555-0004', 1),

(5, '111-22-3333', 'Sarah', 'Conner', 'Senior Instructor', 'F', '1982-05-21', 'Aberdeen', 'AB10 1XG', '555-5005', 3),

(6, '222-33-4444', 'Gary', 'Oak', 'Instructor', 'M', '1991-08-19', 'Aberdeen', 'AB10 1XG', '555-6006', 3),

(7, '333-44-5555', 'Diana', 'Prince', 'Administrator', 'F', '1985-11-30', 'Aberdeen', 'AB10 1XG', '555-7007', 3),

(8, '444-55-6666', 'Bruce', 'Wayne', 'Senior Instructor', 'M', '1979-04-17', 'Inverness', 'IV1 1LY', '555-8008', 4),

(9, '555-66-7777', 'Clark', 'Kent', 'Instructor', 'M', '1988-06-26', 'Inverness', 'IV1 1LY', '555-9009', 4),

(10, '666-77-8888', 'Lois', 'Lane', 'Administrator', 'F', '1990-02-15', 'Inverness', 'IV1 1LY', '555-1010', 4),

(11, '777-88-9999', 'Peter', 'Parker', 'Senior Instructor', 'M', '1977-12-27', 'Dundee', 'DD1 4HN', '555-1111', 5),

(12, '888-99-0000', 'Mary', 'Jane', 'Instructor', 'F', '1986-05-17', 'Dundee', 'DD1 4HN', '555-1212', 5),

(13, '999-00-1111', 'Harry', 'Osborn', 'Administrator', 'M', '1984-03-13', 'Dundee', 'DD1 4HN', '555-1313', 5),

--more senior instructors

(14,'111-11-1111', 'Tony', 'Stark', 'Senior Instructor', 'M', '1970-05-29', 'Glasgow', 'G1 5XX', '555-0101', 1),

(15,'222-22-2222', 'Steve', 'Rogers', 'Senior Instructor', 'M', '1975-07-04', 'Edinburgh', 'E1 4DD', '555-0202', 2),

(16,'333-33-3333', 'Natasha', 'Romanoff', 'Senior Instructor', 'F', '1984-12-03', 'Aberdeen', 'AB15 4ZT', '555-0303', 3),

(17,'444-44-4444', 'Bruce', 'Banner', 'Senior Instructor', 'M', '1979-12-18', 'Inverness', 'IV2 5GH', '555-0404', 4),

(18,'555-55-5551', 'Thor', 'Odinson', 'Senior Instructor', 'M', '1983-11-11', 'Dundee', 'DD3 7JY', '555-0505', 5),

--more instructors

(19, '111-11-1112', 'Wanda', 'Maximoff', 'Instructor', 'F', '1990-01-30', 'Glasgow', 'G2 6QQ', '555-0606', 1),

(20, '222-22-2223', 'Pietro', 'Maximoff', 'Instructor', 'M', '1990-01-30', 'Edinburgh', 'E2 3CC', '555-0707', 2),

(21, '333-33-3334', 'Vision', 'Android', 'Instructor', 'M', '2015-04-23', 'Aberdeen', 'AB16 5NO', '555-0808', 3),

(22, '444-44-4445', 'Sam', 'Wilson', 'Instructor', 'M', '1989-09-23', 'Inverness', 'IV3 8KP', '555-0909', 4),

(23, '555-55-5552', 'Bucky', 'Barnes', 'Instructor', 'M', '1987-03-10', 'Dundee', 'DD4 8UH', '555-1011', 5),

--more administrative staff

(24, '111-11-1113', 'Nick', 'Fury', 'Administrator', 'M', '1963-12-21', 'Glasgow', 'G3 7YT', '555-1112', 1),

(25, '222-22-2224', 'Maria', 'Hill', 'Administrator', 'F', '1982-04-04', 'Edinburgh', 'E3 5RT', '555-1213', 2),

(26, '333-33-3335', 'Phil', 'Coulson', 'Administrator', 'M', '1964-07-08', 'Aberdeen', 'AB17 9PL', '555-1314', 3),

(27, '444-44-4446', 'Clint', 'Barton', 'Administrator', 'M', '1977-01-07', 'Inverness', 'IV4 9BN', '555-1415', 4),

(28, '555-55-5553', 'Scott', 'Lang', 'Administrator', 'M', '1981-02-14', 'Dundee', 'DD5 1ER', '555-1516', 5);

-- Update office data to assign Senior Instructors as managers

UPDATE Office SET managerID = 1 WHERE officeID = 1; -- Glasgow HQ already has John Doe as manager

UPDATE Office SET managerID = 15 WHERE officeID = 2; -- Assigning Steve Rogers as manager of Edinburgh Branch

UPDATE Office SET managerID = 5 WHERE officeID = 3; -- Sarah Conner is already set as the manager of Aberdeen Branch

UPDATE Office SET managerID = 17 WHERE officeID = 4; -- Assigning Bruce Banner as manager of Inverness Branch

UPDATE Office SET managerID = 11 WHERE officeID = 5; -- Peter Parker is already set as the manager of Dundee Branch

--CLIENT DATA

INSERT INTO Client (clientID, fName, lName, dob, phone, city, zipCode, tpStaffID) VALUES

(1, 'Alice', 'Wonderland', '1995-05-05', '555-2001', 'Glasgow', 'G1 5XX', 2),

(2, 'Bob', 'Builder', '1996-06-06', '555-2002', 'Edinburgh', 'E1 6XX', 3);

-- Clients for Glasgow HQ

INSERT INTO Client (clientID, fName, lName, dob, phone, city, zipCode, tpStaffID) VALUES

(3, 'Charlie', 'Day', '1997-03-21', '555-3001', 'Glasgow', 'G1 7XX', 2),

(4, 'Dee', 'Reynolds', '1998-04-22', '555-3002', 'Glasgow', 'G1 8XX', 14),

(5, 'Frank', 'Reynolds', '1999-05-23', '555-3003', 'Glasgow', 'G1 9XX', 19);

-- Clients for Edinburgh Branch

INSERT INTO Client (clientID, fName, lName, dob, phone, city, zipCode, tpStaffID) VALUES

(6, 'Ron', 'Swanson', '1997-06-24', '555-4001', 'Edinburgh', 'E1 7XX', 20),

(7, 'Leslie', 'Knope', '1998-07-25', '555-4002', 'Edinburgh', 'E1 8XX', 15),

(8, 'Ben', 'Wyatt', '1999-08-26', '555-4003', 'Edinburgh', 'E1 9XX', 3);

-- Clients for Aberdeen Branch

INSERT INTO Client (clientID, fName, lName, dob, phone, city, zipCode, tpStaffID) VALUES

(9, 'Homer', 'Simpson', '1997-09-27', '555-5001', 'Aberdeen', 'AB11 1XX', 16),

(10, 'Marge', 'Simpson', '1998-10-28', '555-5002', 'Aberdeen', 'AB12 2XX', 6),

(11, 'Bart', 'Simpson', '1999-11-29', '555-5003', 'Aberdeen', 'AB13 3XX', 21);

-- Clients for Inverness Branch

INSERT INTO Client (clientID, fName, lName, dob, phone, city, zipCode, tpStaffID) VALUES

(12, 'Liz', 'Lemon', '1997-12-30', '555-6001', 'Inverness', 'IV2 2XX', 17),

(13, 'Jack', 'Donaghy', '1998-01-31', '555-6002', 'Inverness', 'IV3 3XX', 22),

(14, 'Tracy', 'Jordan', '1999-02-01', '555-6003', 'Inverness', 'IV4 4XX', 9);

-- Clients for Dundee Branch

INSERT INTO Client (clientID, fName, lName, dob, phone, city, zipCode, tpStaffID) VALUES

(15, 'Michael', 'Scott', '1997-03-02', '555-7001', 'Dundee', 'DD2 2XX', 18),

(16, 'Dwight', 'Schrute', '1998-04-03', '555-7002', 'Dundee', 'DD3 3XX', 23),

(17, 'Jim', 'Halpert', '1999-05-04', '555-7003', 'Dundee', 'DD4 4XX', 11);

--REGISTRATION DATA

INSERT INTO Registration (formID, registrationDate, clientID, officeID) VALUES

(1, '2023-01-01', 1, 1),

(2, '2023-02-01', 2, 2);

-- Registration data for new clients

INSERT INTO Registration (formID, registrationDate, clientID, officeID) VALUES

(3, '2023-02-10', 3, 1),

(4, '2023-02-15', 4, 1),

(5, '2023-02-20', 5, 1),

(6, '2023-03-01', 6, 2),

(7, '2023-03-05', 7, 2),

(8, '2023-03-10', 8, 2),

(9, '2023-03-15', 9, 3),

(10, '2023-03-20', 10, 3),

(11, '2023-03-25', 11, 3),

(12, '2023-04-01', 12, 4),

(13, '2023-04-05', 13, 4),

(14, '2023-04-10', 14, 4),

(15, '2023-04-15', 15, 5),

(16, '2023-04-20', 16, 5),

(17, '2023-04-25', 17, 5);

--CAR DATA

INSERT INTO Car (carID, licenseNo, model, make, year, staffID) VALUES

(1, 'SCX-001', 'Focus', 'Ford', 2020, 1), -- John Doe, Senior Instructor

(2, 'SCX-002', 'Civic', 'Honda', 2021, 2), -- Jane Smith, Instructor

(3, 'SCX-003', 'Corolla', 'Toyota', 2021, 3), -- Jim Beam, Instructor

(4, 'SCX-005', 'Impreza', 'Subaru', 2020, 5), -- Sarah Conner, Senior Instructor

(5, 'SCX-006', '3', 'Mazda', 2021, 6), -- Gary Oak, Instructor

(6, 'SCX-008', 'Golf', 'Volkswagen', 2020, 8), -- Bruce Wayne, Senior Instructor

(7, 'SCX-009', 'Astra', 'Opel', 2021, 9), -- Clark Kent, Instructor

(8, 'SCX-011', 'Megane', 'Renault', 2020, 11), -- Peter Parker, Senior Instructor

(9, 'SCX-012', 'Leon', 'Seat', 2021, 12), -- Mary Jane, Instructor

(10, 'SCX-014', 'Model 3', 'Tesla', 2022, 14), -- Tony Stark, Senior Instructor

(11, 'SCX-015', 'i3', 'BMW', 2022, 15), -- Steve Rogers, Senior Instructor

(12, 'SCX-016', 'Zoe', 'Renault', 2022, 16), -- Natasha Romanoff, Senior Instructor

(13, 'SCX-017', 'ID.3', 'Volkswagen', 2022, 17), -- Bruce Banner, Senior Instructor

(14, 'SCX-018', 'Ioniq', 'Hyundai', 2022, 18), -- Thor Odinson, Senior Instructor

(15, 'SCX-019', 'Fiesta', 'Ford', 2021, 19), -- Wanda Maximoff, Instructor

(16, 'SCX-020', 'Clio', 'Renault', 2021, 20), -- Pietro Maximoff, Instructor

(17, 'SCX-021', '208', 'Peugeot', 2021, 21), -- Vision, Instructor

(18, 'SCX-022', 'Yaris', 'Toyota', 2021, 22), -- Sam Wilson, Instructor

(19, 'SCX-023', 'Polo', 'Volkswagen', 2021, 23); -- Bucky Barnes, Instructor

--INSPECTION DATA

INSERT INTO Inspection (inspectionID, inspectionDate, comment, carID) VALUES

(1, '2023-01-10', 'No issues found', 1),

(2, '2023-01-15', 'Minor scratches', 2);

-- Additional inspection data

INSERT INTO Inspection (inspectionID, inspectionDate, comment, carID) VALUES

(3, '2023-02-05', 'Oil change needed', 1),

(4, '2023-02-10', 'Brake check passed', 2),

(5, '2023-02-15', 'Tire replacement required', 1),

(6, '2023-02-20', 'Engine check required', 2),

(7, '2023-02-25', 'No issues found', 1),

(8, '2023-03-01', 'Windshield wiper replacement', 2),

(9, '2023-03-05', 'Air filter replacement needed', 1),

(10, '2023-03-10', 'Battery in good condition', 2),

(11, '2023-03-15', 'No issues found', 1),

(12, '2023-03-20', 'Headlights adjustment required', 2),

(13, '2023-03-25', 'Oil leak detected', 1),

(14, '2023-03-30', 'Steering alignment check', 2),

(15, '2023-04-04', 'Brake fluid replacement', 1),

(16, '2023-04-09', 'AC system check', 2),

(17, '2023-04-14', 'No issues found', 1),

(18, '2023-04-19', 'Exhaust system check', 2);

--INTERVIEW DETAILS DATA

INSERT INTO InterviewDetails (clientID, interviewDate, interviewTime, comments, staffID) VALUES

(1, '2023-01-20', '10:00:00', 'Positive attitude', 2),

(2, '2023-01-25', '11:00:00', 'Needs improvement in focus', 3);

-- Additional InterviewDetails data

INSERT INTO InterviewDetails (clientID, interviewDate, interviewTime, comments, staffID) VALUES

(3, '2023-02-11', '10:30:00', 'Showed enthusiasm for learning', 2),

(4, '2023-02-12', '11:00:00', 'Asked insightful questions', 14),

(5, '2023-02-13', '09:45:00', 'Seemed nervous', 19),

(6, '2023-02-14', '14:00:00', 'Very confident', 20),

(7, '2023-02-15', '15:30:00', 'Lacks basic knowledge', 15),

(8, '2023-02-16', '16:15:00', 'Has potential, but needs focus', 3),

(9, '2023-02-17', '10:00:00', 'Excellent comprehension', 16),

(10, '2023-02-18', '11:15:00', 'Distracted during the session', 6),

(11, '2023-02-19', '13:30:00', 'Motivated and eager', 21),

(12, '2023-02-20', '08:30:00', 'Punctual but unprepared', 17),

(13, '2023-02-21', '09:00:00', 'Well prepared and articulate', 22),

(14, '2023-02-22', '14:30:00', 'Needs to improve communication skills', 9),

(15, '2023-02-23', '15:00:00', 'Outstanding performance', 18),

(16, '2023-02-24', '15:45:00', 'Average understanding', 23),

(17, '2023-02-25', '16:00:00', 'Shows great interest in practical learning', 11);

--LESSON DATA

INSERT INTO Lesson (lessonID, lessonDate, startDate, topicCovered, clientID, staffID, mileage, instructorComments, lessonStatus) VALUES

(1, '2023-01-30', '2023-01-01', 'Basic controls', 1, 2, 10, 'Good progress', 'Completed'),

(2, '2023-02-05', '2023-01-15', 'Road signs', 2, 3, 15, 'Satisfactory understanding', 'Completed');

-- Additional Lesson data

INSERT INTO Lesson (lessonID, lessonDate, startTime, topicCovered, clientID, staffID, mileage, instructorComments, lessonStatus) VALUES

(3, '2023-02-10', '2023-01-20', 'Parallel parking', 3, 14, 5, 'Needs more practice', 'Completed'),

(4, '2023-02-15', '2023-01-25', 'Highway driving', 4, 19, 20, 'Excellent control', 'Completed'),

(5, '2023-02-20', '2023-01-30', 'Night driving', 5, 2, 10, 'Very cautious', 'Completed'),

(6, '2023-02-25', '2023-02-01', 'Defensive driving', 6, 20, 12, 'Understanding and application are good', 'Completed'),

(7, '2023-03-02', '2023-02-05', 'Driving in rain', 7, 15, 8, 'Improved from last lesson', 'Completed'),

(8, '2023-03-07', '2023-02-10', 'Emergency stops', 8, 3, 7, 'Quick reflexes', 'Completed'),

(9, '2023-03-12', '2023-02-15', 'Reverse parking', 9, 16, 6, 'Struggles with spatial awareness', 'Completed'),

(10, '2023-03-17', '2023-02-20', 'Eco-driving', 10, 6, 9, 'Conscientious and eco-friendly driving', 'Completed'),

(11, '2023-03-22', '2023-02-25', 'City driving', 11, 21, 11, 'Navigates traffic well', 'Completed'),

(12, '2023-03-27', '2023-03-01', 'Country driving', 12, 17, 13, 'Confident in rural settings', 'Completed'),

(13, '2023-04-01', '2023-03-05', 'Motorway driving', 13, 22, 16, 'Needs to watch speed limits', 'Completed'),

(14, '2023-04-06', '2023-03-10', 'Vehicle maintenance', 14, 9, 4, 'Highly interested in car mechanics', 'Completed'),

(15, '2023-04-11', '2023-03-15', 'Driving etiquette', 15, 18, 5, 'Polite and considers other drivers', 'Completed'),

(16, '2023-04-16', '2023-03-20', 'Using navigation systems', 16, 23, 8, 'Learns technology quickly', 'Completed'),

(17, '2023-04-21', '2023-03-25', 'Fuel-efficient driving', 17, 11, 7, 'Understands importance of efficiency', 'Completed');

-- Extra lessons for selected clients

INSERT INTO Lesson (lessonID, lessonDate, startDate, topicCovered, clientID, staffID, mileage, instructorComments, lessonStatus) VALUES

(18, '2023-02-12', '2023-01-05', 'Parking techniques', 1, 14, 8, 'Improved parking skills', 'Completed'),

(19, '2023-03-10', '2023-02-08', 'Advanced controls', 1, 2, 12, 'Mastered advanced techniques', 'Completed'),

(20, '2023-03-15', '2023-02-12', 'Defensive driving', 3, 19, 14, 'Good defensive driving', 'Completed'),

(21, '2023-03-05', '2023-02-18', 'Traffic rules', 6, 20, 10, 'Clear understanding of traffic laws', 'Completed'),

(22, '2023-04-10', '2023-03-15', 'Rural driving', 6, 15, 16, 'Comfortable with rural environments', 'Completed'),

(23, '2023-02-20', '2023-01-25', 'Speed control', 2, 3, 9, 'Better at speed management', 'Completed'),

(24, '2023-03-25', '2023-02-28', 'Night driving', 5, 22, 7, 'Shows confidence driving at night', 'Completed');

--DRIVING TEST

-- DrivingTest data for clients with at least 2 lessons

INSERT INTO DrivingTest (testID, writtenScore, drivingScore, testDate, testTime, clientID, drivingStatus) VALUES

(1, 85, 80, '2023-03-05', '10:00:00', 1, 'Passed'),

(2, 78, 70, '2023-03-06', '11:00:00', 2, 'Passed'),

(3, 90, 85, '2023-03-07', '12:00:00', 3, 'Passed'),

(4, 65, 60, '2023-03-08', '13:00:00', 5, 'Failed'),

(5, 75, 70, '2023-03-09', '14:00:00', 6, 'Failed');

-- TestReview data for the failed test

INSERT INTO TestReview (testID, instructorComments) VALUES

(4, 'Needs to improve attention to detail and reaction to road signs.'),

(5, 'Needs to check their driving speed.');

**﻿5) Write, execute and test (make sure the output is correct!!) all queries given in**

**paragraph B.2 in Appendix B of the book using SSMS/ADS with SQL Server.**

--no 1 names and telephone numbers of managers at each office

SELECT o.officeID,o.officeName,lname, fname, s.phone

FROM Staff s, Office o

WHERE s.staffID = o.managerID; A screenshot of a computer

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--no 2 full address of all offices in Glasgow

SELECT officeID, officeName,CONCAT (city ,',', zipCode) AS 'Full Address'

FROM Office

WHERE city like '%Glasgow%';

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--no 4 total number of staff at each office

SELECT s.officeID, officeName, COUNT(\*) AS 'Total Number of Staff'

FROM Staff s, Office o

WHERE s.officeID = o.officeID

GROUP BY s.officeID, officeName;

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--10 Registration number of cars that have no faults found

SELECT c.licenseNo, i.comment

FROM Car c, Inspection i

WHERE c.carID = i.carID AND comment LIKE '%No issues%';

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