Lab 4 – Week 9

The *EasyDrive School of Motoring* case study

For exam practice, I didn't use graphic illustration and just listed entities and relationships using plain text.

(1) Create a conceptual data model for the above case study. State any assumptions necessary to support your design.
ANS:

Entities:
Office
Staff
Client
Interview
Lesson
Car
Test

Relations:
Office 1 <--> 1 Staff(position-Manager)
Office 1 <--> * Staff
Staff 1 <--> * Client
Staff 1 <--> * Interview
Client 1 <--> * Lesson
Staff 1 <--> 1 Car
Client 1 <--> * Test

(2) Create and validate a logical data model from the conceptual data model created in (1) above.
ANS:

Office -> **office_id**, name, manager_id(staff_id), address
Address -> **address_id**, street, city, state, zipCode
Staff -> **staff_id**, name, gender, email, phoneNumber, office_id, position
Client -> **client_id**, name, email, phoneNumber, instructor_id(staff_id)
Interview -> **interview_id**, instructor_id(staff_id), client_id, date, result
Lesson -> **lesson_id**, instructor_id(staff_id), client_id, start_time, end_time, milage
Car -> **car_id**, instructor_id(staff_id), model, totalMilage
Test -> **test_id**, client_id, car_id, test_date, result