

SOAL LATIHAN PERTEMUAN - 11

PERTEMUAN – 9

The *EasyDrive School of Motoring* case study

- 15.17 Provide a user's requirements specification for the *EasyDrive School of Motoring* case study documented in Appendix B.2.
- 15.18 Create a conceptual data model for the case study. State any assumptions necessary to support your design. Check that the conceptual data model supports the required transactions.

PERTEMUAN – 10

The *EasyDrive School of Motoring* case study

- 16.11 Create and validate a logical data model from the conceptual data model for the *EasyDrive School of Motoring* case study created in Exercise 15.18.

Appendix B2

Warna = entity

Warna = relationship (entity relationship)

Warna = relationship

Warna = attributes

Each office has a Manager (who tends to also be a Senior Instructor), several Senior Instructors, Instructors, and administrative staff. The Manager is responsible for the day-to-day running of the office. Clients must first register at an office and this requires that they complete an application form, which records their personal details.

Asumsi berdasarkan fakta umum yang logis:

Tentang staff, staff bekerja di kantor (works), dan kantor memiliki manager (manage). Secara umum staff akan memiliki atribut name (fName, lName, Address, Job, salary, sex, dob). Sedangkan office secara umum akan memiliki atribut Address, Postcode, TelNo). Untuk client secara umum akan memiliki atribut name (fName, lName, Address, Postcode, TelNo, sex, dob, licence.

Before the first lesson, a client is requested to attend an interview with an Instructor to assess the needs of the client and to ensure that the client holds a valid provisional driving license. A client is free to ask for a particular Instructor or to request that an Instructor be changed at any stage throughout the process of learning to drive.

Asumsi logis:

Suatu keharusan bawa client harus mengikuti wawancara dengan instruktur (staff) dengan asumsi bahwa waktu pelaksanaan, tempat, hasil wawancara (komentar) dan yang mewawancariannya dicatat sehingga akan memiliki atribut iDate, iTime, iRoom, iComments.

After the interview, the first lesson is **booked**. A client may request individual lessons or book a block of lessons for a reduced fee. An individual lesson is for one hour, which begins and ends at the office. A lesson is with a particular Instructor in a particular car at a given time. Lessons can start as early as 8am and as late as 8pm. After each lesson, the Instructor records the progress made by the client and notes the mileage used during the lesson.

Diketahui bahwa ketika client memesan pelajaran, client dapat meminta jenis (type) pelajaran. Jam belajar client juga diketahui, kemudian perkembangan client juga dicatat, jarak tempuh mobil yang digunakan untuk belajar juga di catat. Maka atributnya adalah type, date, time, progress, dan mileage.

The School **has** a pool of **cars**, which are adapted for the purposes of teaching. Each Instructor is **allocated** to a particular car. As well as teaching, the Instructors are free to use the cars for personal use. The cars are **inspected** at regular intervals for faults. Once ready, a client **applies** for a driving test **date**.

Asumsi logis:

Diketahui bahwa kantor memiliki banyak mobil yang tentunya data mobil dicatat. Asumsi data tentang mobil dengan atribut berikut brand, model, color, capacity. Mobil diperiksa rutin dengan asumsi bahwa mobil dapat diperiksa oleh beberapa staff atau sebaliknya staff dapat memeriksa beberapa mobil dan dicatat mengenai tanggal, hasil, dan komentarnya sehingga atributnya adalah inspectDate, faultsNote, comments.

To obtain a full driving license the client must pass both the practical and theoretical parts of the test. It is the responsibility of the Instructor to ensure that the client is best prepared for all parts of the test. The Instructor is not responsible for testing the client and is not in the car during the test but should be available to drop off and pick up the client before and after the test at the **Testing Centre**. If a client fails to pass, the Instructor must record the **reasons for the failure**.

Asumsi logis:

Perhatikan, Once ready, a client applies for a driving test date. Faktanya bahwa client mengajukan permohonan tanggal ujian dan dicatat hasilnya. Ini diketahui atributenya adalah testDate, testTime, testCentre, result, testComments. Tentunya client dapat mengulang test pada waktu berbeda dengan mobil yang berbeda.