Description of all assumptions you have made in your design (You can also add more requirements here). (2 mark)

1. Managers may also be senior teachers, teachers, and administrators.
2. The client may choose to appoint a teacher to attend the first class during the interview. Otherwise, the teacher is the interviewer.
3. The time of interview is outside class hours.
4. Check the vehicle every night and repair it overnight if it breaks down.
5. Students are asked if they need to be transported before each test.
6. Each student takes an hour to complete the exam.
7. The time a car checks is not counted in a timetable.
8. Record the manager's phone number without regard to the general staff.
9. Teachers can be changed at the beginning of the course, but not during the course.
10. There are no cars in administrative staff.

Data type hypothesis:
1. OfficeNo, staffNo, clientNo, registrationNo, are all five-digit strings of uppercase letters and Numbers.
2. The value of staffType is Instructor/Administrative Staff, Senior Instructor.
3. The value of payMethod is Single/Interchangeable.
4. The value of pickUp is Yes/No.
5. If test passed, the value of failReason is blank, not NULL.
6. The value unit of mileage is miles by default.
7. If there is no problem in vehicle inspection, the carCondition value is good, and if there is a problem, write down the specific problem.
8. The weekNo format is year-week.

A conceptual schema (ER diagram) (with explanation of how the database design supports the requirements). (3 mark)

Our initial conceptual schema (ER diagram) was designed as the Fig.1 shows. We will explain every relation one by one.

In Easy Drive School, staff's information needs to save in database and each staff has an office plus many staff can in the same office. In STAFF relation, staffNo (staff number) is as primary key of STAFF entity; firstName (staff's first name), lastName (staff's last name), DoB (date of birth), age (staff's age), gender (staff's gender), staffType (staff's identification: Instructor/Administrative Staff/Senior Instructor), phoneNumber (staff's phone number), OFFICE_officeNo (staff's office number) as the rest of attributes of STAFF table.

Every office's information also needs to be registered. In OFFICE relation, officeNo (office number) is the primary key and MANAGER_staffNo (the staffNo of the manager the same as STAFF_staffNo in OFFICE_has_STAFF(MANAGER)) is the foreign key from OFFICE_has_STAFF(MANAGER), city, address, officeName (office's name) are the rest of the attributes of OFFICE.

Due to the n:n relationship between OFFICE and STAFF – many office and have many staff, we use an associative relation between two tables called OFFICE_has_STAFF(MANAGER).

This relation we use to represent every manager of each office. OFFICE_officeNo (officeNo), STAFF_staffNo (manager's staffNo) are the primary key for this entity.

For every instructor or senior instructor, they all have their own car for coaching and the corresponding information of car. In CAR relation, registrationNo (car's registration number) is as primary key and STAFF_staffNo (instructor's staffNo, 1:1 relationship between CAR and STAFF automatically generate) is the foreign key. The rest of the attributes are checkDate, carCondition.

For every client except of register their basic information, also need to have an interview which will record their first lesson's instructor, the time of interview, the pay method and the office they registered. In CLIENT relation, clientNo (client's registration number), registerDate are as primary key. OFFICE_officeNo (the register officeNo, 1:1 relationship between CLIENT and OFFICE automatically generate) is the foreign key. The rest of the attributes of CLIENT are firstName (client's first name), lastName (client's last name), DoB

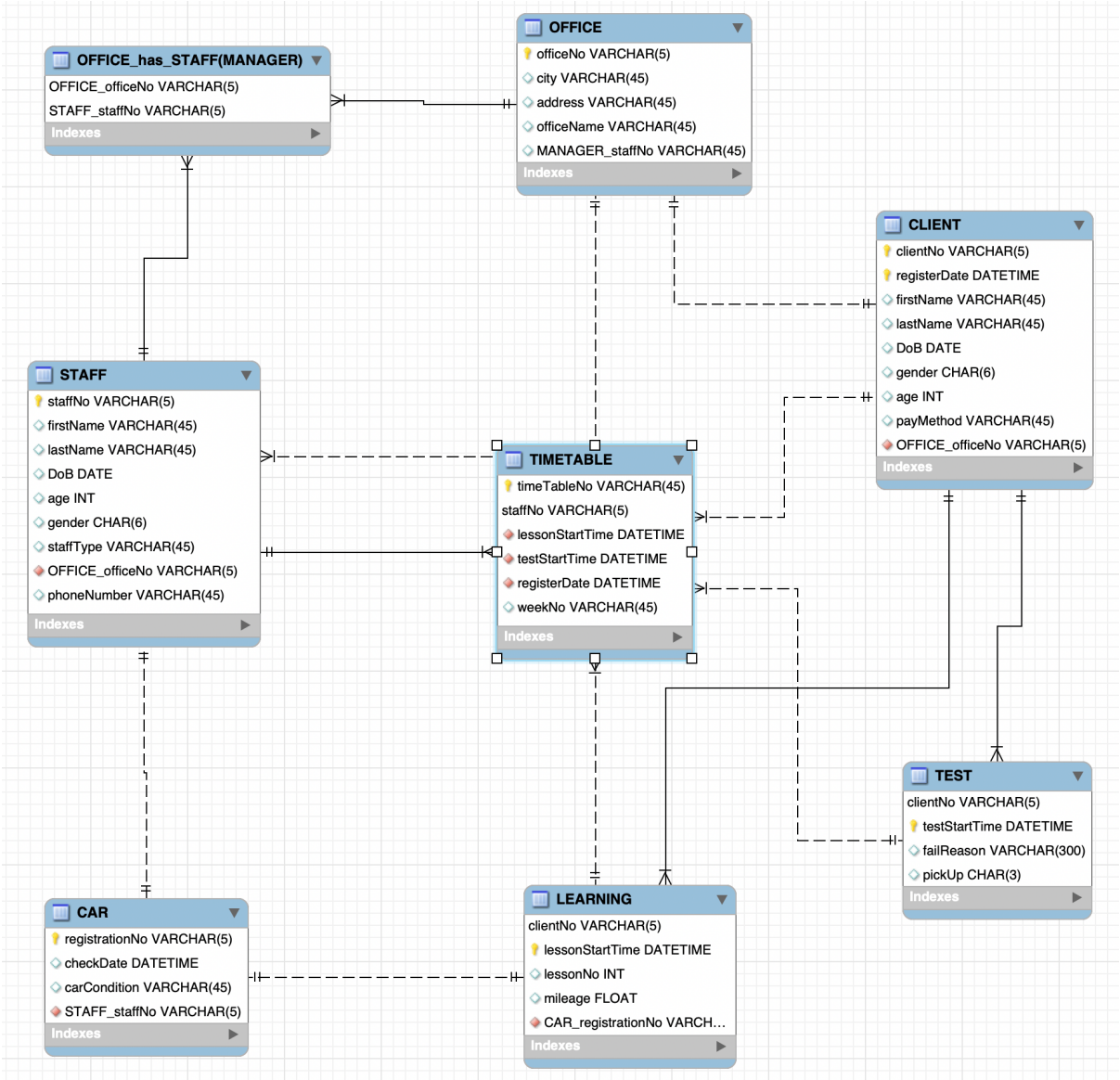

Fig.1 ER Diagram (Initial Design)

(client's birthday), gender (client's gender), age (client's age), payMethod (client's pay method).

Each client can decide to change or ask for a particular instructor in any lesson at any time and can arrange their own timetable for the learning. In LEARNING relation, clientNo (the client's registration number in CLIENT) and lessonStartTime are the primary key, CAR_registrationNo (1:1 relationship between CAR and LEARNING automatically generate) is the foreign key. One tuple will be added into the relation as long as one class is taken by one client (i.e. every client will have many tuples in the relation after they finish the whole program). The rest of the attributes are lessonNo (the number of the lesson), mileage (mileage taken by client in each lesson).

For every client finish learning, they can have an exam. If client not pass the fail reason should be recorded. Client can ask for pick up/drop off service in each exam. In TEST relation, clientNo (the client's registration number in CLIENT) and testStartTime are the primary key, failReason (the fail reason, if success then it's NULL) and pickUp (weather needed to pick up, Yes or No).

For each staff they can look up their next week time schedule which including time arrangement for coaching, picking up client for exam and interviewing. In TIMETABLE relation, the timeTableNo (sequential number of timetable tuples in order to distinguish the same staffNo tuples) and staffNo (the instructor's number in STAFF) are the primary key. lessonStartTime (coaching time in LEARNING), testStartTime (pick up time in TEST) and registerDate (interview time in CLIENT) are the foreign key. weekNo (number of the week in a year) is the rest of the attributes.

The relational database schema for your database. You should also identify all primary and foreign keys in your design. You should *validate* your relations using normalization, and *explain* why they are in 4th Normal Form. (2 marks)

- The relational database schema

  STAFF (staffNo, firstName, LastName, DoB, age, gender, staffType, OFFICE_officeNo)
  Primary key: staffNo
  Foreign key: OFFICE_officeNo

  OFFICE_has_STAFF(MANAGER) (OFFICE_officeNo, STAFF_staffNo)
  Primary key: OFFICE_officeNo, STAFF_staffNo

  MANAGERPHONE (staffNo, phoneNumber)
  Primary key: staffNo

  CLIENT (clientNo, firstName, lastName, DoB, gender, age)
  Primary key: clientNo

  CLIENTREGISTRATION (registerDate, payMethod, OFFICE_officeNo, CLIENT_clientNo)
  Primary key: registerDate
  Foreign key: OFFICE_officeNo, CLIENT_clientNo

OFFICE (officeNo, city, address, MANAGER_staffNo)
Primary key: officeNo
Foreign key: MANAGER_staffNo

CARREGISTRATION (staffNo, registrationNo)
Primary key: stuffNo
Foreign key: registrationNo

CAR (registrationNo, condition, checkDate)
Primary key: registrationNo

LEARINGCAR (registrationNo, clientNo)
Primary key: registrationNo, clientNo

LEARNING (clientNo, lessonStartTime, lessonNo)
Primary key: clientNo, lessonStartTime

LEARNINGMILEAGE (clientNo, lessonStartTime, mileage)
Primary key: clientNo, lessonStartTime

TEST (clientNo, testStartTime, pickUp, failReason)
Primary key: clientNo, testStartTime
Foreign key: clientNo, testStartTime

TIMETABLE (staffNo, lessonStartTime, testStartTime, registerDate)
Primary key: staffNo
Foreign key: lessonStartTime, testStartTime, registerDate

- Normalization

We use the relations in Fig.1 to start normalization. The final normalization result showed in Fig.2.

- STAFF relation

The original entity is:

STAFF
staffNo
firstName
LastName
Dob
age
gender
phoneNumber

staffType
OFFICE_officeNo

Functional dependencies:
staffNo -> firstName, lastName, Dob, age, gender, phoneNumber, staffType, OFFICE_officeNo
OFFICE_officeNo -> phoneNumber

It satisfies 2NF, but doesn't satisfy 3NF because phoneNumber is transitively dependent on staffNo through OFFICE_officeNo. Considered that we just need managers' phone numbers, thus we put phoneNumber into entity MANAGERPHONE.

The changed entity is:

STAFF
staffNo
firstName
LastName
Dob
age
gender
staffType
OFFICE_officeNo

It satisfies 2NF, 3NF and 4NF.

Functional dependencies:
staffNo -> firstName
staffNo -> lastName
staffNo -> DoB
staffNo -> gender
staffNo -> age
staffNo -> staffType
staffNo -> OFFICE_officeNo

After adding phoneNumber,

OFFICE_has_STAFF(MANAGER)
OFFICE_officeNo
STAFF_staffNo

Change to

OFFICE_has_STAFF(MANAGER)
OFFICE_officeNo

STAFF_staffNo
phoneNumber

The functional dependencies:
OFFICE_officeNo -> STAFF_staffNo, phoneNumber
STAFF_staffNo -> phoneNumber

It satisfies 2NF, doesn't satisfy 3NF because phoneNumber is transitively dependent on STAFF_staffNo through OFFICE_officeNo.
Then we split the entity:

OFFICE_has_STAFF(MANAGER)
OFFICE_officeNo
STAFF_staffNo

MANAGERNUMBER
staffNo
phoneNumber

They all satisfy 2NF, 3NF and 4NF.
Functional dependencies:
OFFICE_officeNo -> STAFF_staffNo
staffNo -> phoneNumber

- OFFICE relation

OFFICE
officeNo
city
address
MANAGER_staffNo
officeName

Functional dependencies:
officeNo -> city
officeNo -> address
officeNo -> MANAGER_staffNo
officeNo -> officeName

It eliminates the partial dependence of non-primary attribute on code and the dependence of transfer function and eliminates the multi-value dependence of non-trivial and non-function.

- CARREGISTRATION relation

CARREGISTRATION
staffNo
registrationNo

Functional Dependency:
staffNo -> registrationNo

The original relation that we designed satisfies 1NF which means the intersection of each row and column contains one and only one value. Besides, we found that there is no non-primary-key attribute transitively depend on the primary key and every determinant is a candidate key in this relation. There is also no multi-valued dependency in CARREGISTRATION. Therefore, we get the relation in 4th Normal Form.

- CAR relation

CAR
registrationNo
condition
checkDate

Functional Dependency:
registrationNo -> condition, checkDate

The original relation that we designed satisfies 1NF which means the intersection of each row and column contains one and only one value. Besides, we found that there is no non-primary-key attribute transitively depend on the primary key and every determinant is a candidate key in this relation. There is also no multi-valued dependency in CAR. Therefore, we get the relation in 4th Normal Form.

- LEARNINGCAR relation

LEARINGCAR
registrationNo
clientNo

Functional Dependency:
registrationNo -> clientNo

The original relation that we designed satisfies 1NF which means the intersection of each row and column contains one and only one value. Besides, we found that there is no non-primary-key attribute transitively depend on the primary key and every determinant is a candidate key in this relation. There is also no multi-valued dependency in LEARNINGCAR. Therefore, we get the relation in 4th Normal Form.

- LEARNING relation

LEARING
clientNo
lessonStartTime
lessonNo

Functional Dependency:
clientNo -> lessonStartTime, lessonNo

The original relation that we designed satisfies 1NF which means the intersection of each row and column contains one and only one value. Besides, we found that there is no non-primary-key attribute transitively depend on the primary key and every determinant is a candidate key in this relation. There is also no multi-valued dependency in LEARNING. Therefore, we get the relation in 4th Normal Form.

- LEARNINGMILEAGE relation

LEARNINGMILEAGE
clientNo
lessonStartTime
mileage

Functional Dependency:
clientNo -> lessonStartTime, mileage

The original relation that we designed satisfies 1NF which means the intersection of each row and column contains one and only one value. Besides, we found that there is no non-primary-key attribute transitively depend on the primary key and every determinant is a candidate key in this relation. There is also no multi-valued dependency in LEARNINGMILEAGE. Therefore, we get the relation in 4th Normal Form.

- CLIENT relation

CLIENT
clientNo
registerDate
firstName
lastName
DoB
gender

age
OFFICE_officeNo
payMethod

Split this entity into two entities, CLIENT and CLIENTREGISTER, to satisfy 2NF.

CLIENT
clientNo
firstName
lastName
DoB
gender
age

Functional dependencies:
clientNo -> firstName
clientNo -> lastName
clientNo -> DoB
clientNo -> gender
clientNo -> age

CLIENTREGISTER
clientNo
registerDate
OFFICE_officeNo
payMethod

Functional dependencies:
clientNo -> registerDate
clientNo -> OFFICE_officeNo
clientNo -> payMethod

It eliminates the partial dependence of non-primary attribute on code and the dependence of transfer function and eliminates the multi-value dependence of non-trivial and non-function.

- TEST relation

The original relation that we designed satisfies 1NF which means the intersection of each row and column contains one and only one value. Besides, we found that there is no non-primary-key attribute transitively depend on the primary key and every determinant is a candidate key in this relation. There is also no multi-valued dependency in TEST. Therefore, we get the relation in 4th Normal Form.

The functional dependencies:
clientNo, testStartTime -> pickUp
clientNo, testStartTime -> failReason

TEST
clientNo（primary key）
testStartTime（primary key）
pickUp
failReason

- TIMETABLE relation

Because there are no non-primary attributes that depend partly on the code and on the transfer function, there are no non-trivial and non-functional multivalued dependencies.

Functional dependency:
timeTableNo,staffNo -> lessonStartTime, testStartTime, registerDate, weekNo

TIMETABLE
timeTableNo
staffNo
lessonStartTime
testStartTime
registerDate
weekNo

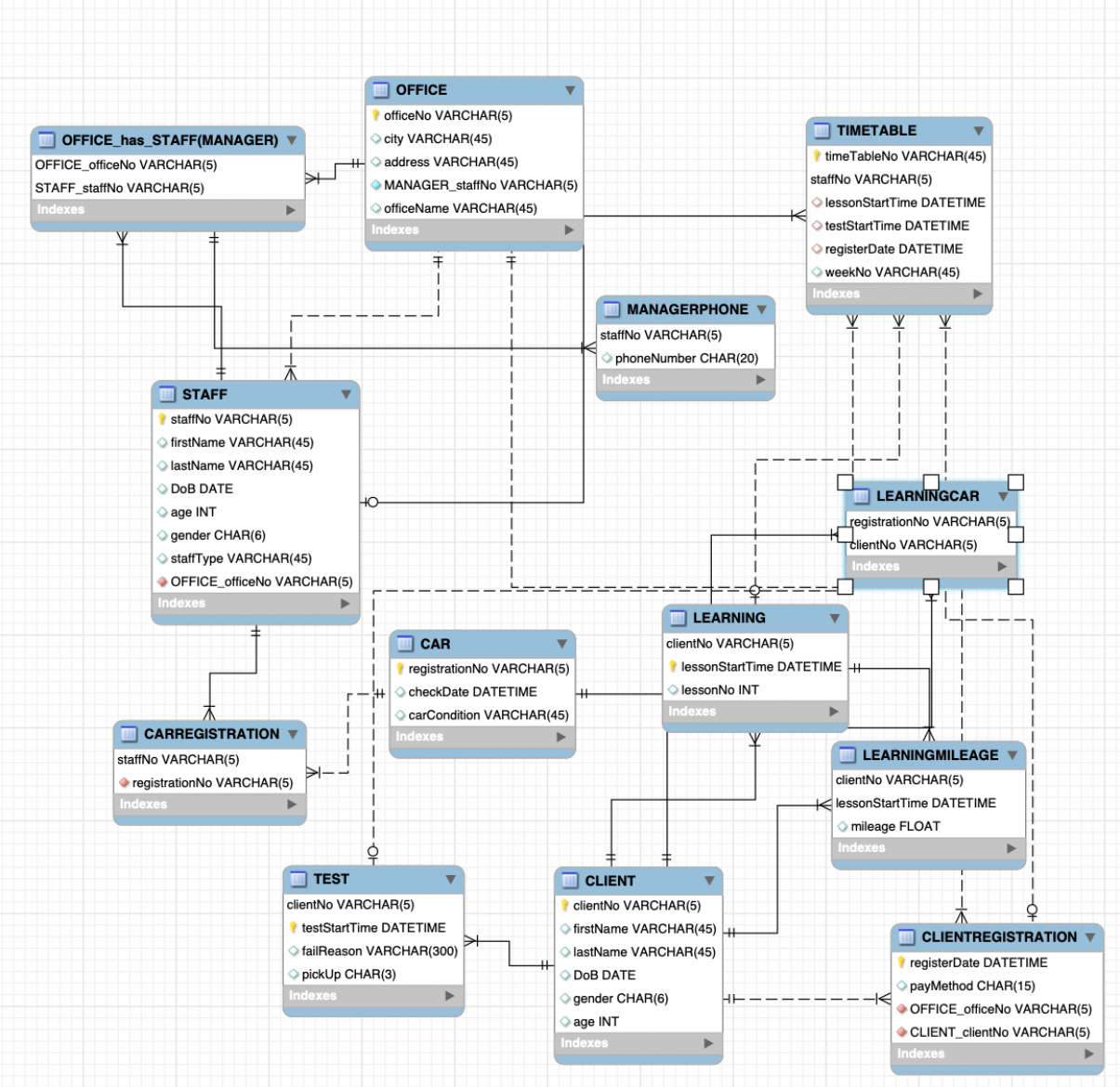

Fig.2 ER Diagram in 4NF (Final Design)

The sample test data. This test data should be carefully designed in order to test that your queries will work under any conditions. (1 marks)

```
INSERT INTO `mydb`.`office` (`officeNo`, `city`, `address`, `MANAGER_staffNo`, `officeName`)
VALUES ('A0001', 'Glasgow', '145 Kelvinhaugh St, Glasgow', 'A0001', 'Bearsden');
INSERT INTO `mydb`.`office` (`officeNo`, `city`, `address`, `MANAGER_staffNo`, `officeName`)
VALUES ('A0002', 'London', '385-389 Oxford St, London', 'A0007', 'Bridge');
INSERT INTO `mydb`.`office` (`officeNo`, `city`, `address`, `MANAGER_staffNo`, `officeName`)
VALUES ('A0003', 'Birmingham', '256 Colebrook St, Birmingham', 'A0011', 'Oxley');
```

```
INSERT INTO `mydb`.`office` (`officeNo`, `city`, `address`, `MANAGER_staffNo`, `officeName`)
VALUES ('A0004', 'Edinburgh', '023 Chambers St, Edinburgh', 'A0016', 'Ingliston');
INSERT INTO `mydb`.`office` (`officeNo`, `city`, `address`, `MANAGER_staffNo`, `officeName`)
VALUES ('A0005', 'Liverpool', '029 Dale St, Liverpool', 'A0021', 'Albion');

INSERT INTO `mydb`.`staff` (`staffNo`, `firstName`, `lastName`, `DoB`, `age`, `gender`,
`staffType`, `OFFICE_officeNo`) VALUES ('A0001', 'John', 'Davids', '1964-04-21', '56', 'male',
'Senior Instructor', 'A0001');
INSERT INTO `mydb`.`staff` (`staffNo`, `firstName`, `lastName`, `DoB`, `age`, `gender`,
`staffType`, `OFFICE_officeNo`) VALUES ('A0002', 'Emma', 'Miller', '1987-06-12', '33',
'female', 'Senior Instructor', 'A0001');
INSERT INTO `mydb`.`staff` (`staffNo`, `firstName`, `lastName`, `DoB`, `age`, `gender`,
`staffType`, `OFFICE_officeNo`) VALUES ('A0003', 'James', 'Brown', '1982-01-23', '38', 'male',
'Instructor', 'A0001');
INSERT INTO `mydb`.`staff` (`staffNo`, `firstName`, `lastName`, `DoB`, `age`, `gender`,
`staffType`, `OFFICE_officeNo`) VALUES ('A0004', 'Alex', 'Thomas', '1962-12-12', '58', 'male',
'Instructor', 'A0001');
INSERT INTO `mydb`.`staff` (`staffNo`, `firstName`, `lastName`, `DoB`, `age`, `gender`,
`staffType`, `OFFICE_officeNo`) VALUES ('A0005', 'Betty', 'Jones', '1991-08-23', '29', 'female',
'Administrative Staff', 'A0001');
INSERT INTO `mydb`.`staff` (`staffNo`, `firstName`, `lastName`, `DoB`, `age`, `gender`,
`staffType`, `OFFICE_officeNo`) VALUES ('A0006', 'Chase', 'Walker', '1993-02-11', '27', 'male',
'Administrative Staff', 'A0001');
INSERT INTO `mydb`.`staff` (`staffNo`, `firstName`, `lastName`, `DoB`, `age`, `gender`,
`staffType`, `OFFICE_officeNo`) VALUES ('A0007', 'Ryan', 'Smith', '1978-01-31', '42', 'male',
'Senior Instructor', 'A0002');
INSERT INTO `mydb`.`staff` (`staffNo`, `firstName`, `lastName`, `DoB`, `age`, `gender`,
`staffType`, `OFFICE_officeNo`) VALUES ('A0008', 'Lily', 'Williams', '1984-04-20', '36',
'female', 'Senior Instructor', 'A0002');
INSERT INTO `mydb`.`staff` (`staffNo`, `firstName`, `lastName`, `DoB`, `age`, `gender`,
`staffType`, `OFFICE_officeNo`) VALUES ('A0009', 'Black', 'Wilson', '1994-05-18', '26', 'male',
'Instructor', 'A0002');
INSERT INTO `mydb`.`staff` (`staffNo`, `firstName`, `lastName`, `DoB`, `age`, `gender`,
`staffType`, `OFFICE_officeNo`) VALUES ('A0010', 'Cora', 'Clark', '1990-06-06', '30', 'female',
'Administrative Staff', 'A0002');
INSERT INTO `mydb`.`staff` (`staffNo`, `firstName`, `lastName`, `DoB`, `age`, `gender`,
`staffType`, `OFFICE_officeNo`) VALUES ('A0011', 'Nicola', 'Jackson', '1975-07-18', '45',
'female', 'Senior Instructor', 'A0003');
INSERT INTO `mydb`.`staff` (`staffNo`, `firstName`, `lastName`, `DoB`, `age`, `gender`,
`staffType`, `OFFICE_officeNo`) VALUES ('A0012', 'Jack', 'Lewis', '1981-04-23', '39', 'male',
'Senior Instructor', 'A0003');
INSERT INTO `mydb`.`staff` (`staffNo`, `firstName`, `lastName`, `DoB`, `age`, `gender`,
`staffType`, `OFFICE_officeNo`) VALUES ('A0013', 'Justin', 'Lee', '1994-09-08', '26', 'male',
'Instructor', 'A0003');
INSERT INTO `mydb`.`staff` (`staffNo`, `firstName`, `lastName`, `DoB`, `age`, `gender`,
`staffType`, `OFFICE_officeNo`) VALUES ('A0014', 'Nelly', 'Adams', '1995-05-05', '25',
'female', 'Administrative Staff', 'A0003');
```

```
INSERT INTO `mydb`.`staff` (`staffNo`, `firstName`, `lastName`, `DoB`, `age`, `gender`,
`staffType`, `OFFICE_officeNo`) VALUES ('A0015', 'Lucas', 'Evans', '1989-10-18', '31', 'male',
'Administrative Staff', 'A0003');
INSERT INTO `mydb`.`staff` (`staffNo`, `firstName`, `lastName`, `DoB`, `age`, `gender`,
`staffType`, `OFFICE_officeNo`) VALUES ('A0016', 'Sean', 'Green', '1960-01-03', '60', 'male',
'Administrative Staff', 'A0004');
INSERT INTO `mydb`.`staff` (`staffNo`, `firstName`, `lastName`, `DoB`, `age`, `gender`,
`staffType`, `OFFICE_officeNo`) VALUES ('A0017', 'Hunter', 'Phillips', '1976-09-30', '44',
'male', 'Senior Instructor', 'A0004');
INSERT INTO `mydb`.`staff` (`staffNo`, `firstName`, `lastName`, `DoB`, `age`, `gender`,
`staffType`, `OFFICE_officeNo`) VALUES ('A0018', 'James', 'Brown', '1987-11-28', '33', 'nale',
'Senior Instructor', 'A0004');
INSERT INTO `mydb`.`staff` (`staffNo`, `firstName`, `lastName`, `DoB`, `age`, `gender`,
`staffType`, `OFFICE_officeNo`) VALUES ('A0019', 'Louise', 'Backer', '1988-10-03', '32',
'female', 'Instructor', 'A0004');
INSERT INTO `mydb`.`staff` (`staffNo`, `firstName`, `lastName`, `DoB`, `age`, `gender`,
`staffType`, `OFFICE_officeNo`) VALUES ('A0020', 'Judy', 'Mitchell', '1981-07-25', '39',
'female', 'Administrative Staff', 'A0004');
INSERT INTO `mydb`.`staff` (`staffNo`, `firstName`, `lastName`, `DoB`, `age`, `gender`,
`staffType`, `OFFICE_officeNo`) VALUES ('A0021', 'Jack', 'Lee', '1961-06-30', '59', 'male',
'Senior Instructor', 'A0005');
INSERT INTO `mydb`.`staff` (`staffNo`, `firstName`, `lastName`, `DoB`, `age`, `gender`,
`staffType`, `OFFICE_officeNo`) VALUES ('A0022', 'Andrew', 'Moore', '1973-02-16', '47',
'male', 'Instructor', 'A0005');
INSERT INTO `mydb`.`staff` (`staffNo`, `firstName`, `lastName`, `DoB`, `age`, `gender`,
`staffType`, `OFFICE_officeNo`) VALUES ('A0023', 'Eric', 'Martin', '1975-04-26', '45', 'male',
'Instructor', 'A0005');
INSERT INTO `mydb`.`staff` (`staffNo`, `firstName`, `lastName`, `DoB`, `age`, `gender`,
`staffType`, `OFFICE_officeNo`) VALUES ('A0024', 'Arthur', 'Morgan', '1984-09-13', '36',
'male', 'Administrative Staff', 'A0005');

INSERT INTO `mydb`.`client` (`clientNo`, `firstName`, `lastName`, `DoB`, `gender`, `age`)
VALUES ('A0001', 'Logan', 'Scoot', '1981-04-20', 'male', '39');
INSERT INTO `mydb`.`client` (`clientNo`, `firstName`, `lastName`, `DoB`, `gender`, `age`)
VALUES ('A0002', 'Gemma', 'Ramirez', '1980-02-21', 'female', '40');
INSERT INTO `mydb`.`client` (`clientNo`, `firstName`, `lastName`, `DoB`, `gender`, `age`)
VALUES ('A0003', 'Bryan', 'Hall', '1995-09-16', 'male', '26');
INSERT INTO `mydb`.`client` (`clientNo`, `firstName`, `lastName`, `DoB`, `gender`, `age`)
VALUES ('A0004', 'Benjamin', 'Torres', '1991-03-24', 'male', '29');
INSERT INTO `mydb`.`client` (`clientNo`, `firstName`, `lastName`, `DoB`, `gender`, `age`)
VALUES ('A0005', 'Judy', 'Allen', '1987-11-13', 'female', '33');
INSERT INTO `mydb`.`client` (`clientNo`, `firstName`, `lastName`, `DoB`, `gender`, `age`)
VALUES ('A0006', 'Bill', 'Willimson', '1975-03-13', 'male', '45');

INSERT INTO `mydb`.`office_has_staff(manager)` (`OFFICE_officeNo`, `STAFF_staffNo`)
VALUES ('A0001', 'A0001');
```

```
INSERT INTO `mydb`.`office_has_staff(manager)` (`OFFICE_officeNo`, `STAFF_staffNo`)
VALUES ('A0002', 'A0007');
INSERT INTO `mydb`.`office_has_staff(manager)` (`OFFICE_officeNo`, `STAFF_staffNo`)
VALUES ('A0003', 'A0011');
INSERT INTO `mydb`.`office_has_staff(manager)` (`OFFICE_officeNo`, `STAFF_staffNo`)
VALUES ('A0004', 'A0016');
INSERT INTO `mydb`.`office_has_staff(manager)` (`OFFICE_officeNo`, `STAFF_staffNo`)
VALUES ('A0005', 'A0021');

INSERT INTO `mydb`.`managerphone` (`staffNo`, `phoneNumber`) VALUES ('A0001',
'1410286271');
INSERT INTO `mydb`.`managerphone` (`staffNo`, `phoneNumber`) VALUES ('A0007',
'2083461911');
INSERT INTO `mydb`.`managerphone` (`staffNo`, `phoneNumber`) VALUES ('A0011',
'1210283625');
INSERT INTO `mydb`.`managerphone` (`staffNo`, `phoneNumber`) VALUES ('A0016',
'1310183613');
INSERT INTO `mydb`.`managerphone` (`staffNo`, `phoneNumber`) VALUES ('A0021',
'1511836211');

INSERT INTO `mydb`.`car` (`registrationNo`, `checkDate`, `carCondition`) VALUES ('C0001',
'2000-01-05 21:00:00', 'good');
INSERT INTO `mydb`.`car` (`registrationNo`, `checkDate`, `carCondition`) VALUES ('C0002',
'2000-01-06 21:00:00', 'tyre flat');
INSERT INTO `mydb`.`car` (`registrationNo`, `checkDate`, `carCondition`) VALUES ('C0003',
'2000-01-07 21:00:00', 'brake is broken');
INSERT INTO `mydb`.`car` (`registrationNo`, `checkDate`, `carCondition`) VALUES ('C0004',
'2000-01-05 21:30:00', 'good');
INSERT INTO `mydb`.`car` (`registrationNo`, `checkDate`, `carCondition`) VALUES ('C0005',
'2000-02-05 21:30:00', 'good');
INSERT INTO `mydb`.`car` (`registrationNo`, `checkDate`, `carCondition`) VALUES ('C0006',
'2002-01-04 21:00:00', 'good');
INSERT INTO `mydb`.`car` (`registrationNo`, `checkDate`, `carCondition`) VALUES ('C0007',
'2002-01-05 21:00:00', 'tyre flat');
INSERT INTO `mydb`.`car` (`registrationNo`, `checkDate`, `carCondition`) VALUES ('C0008',
'2002-01-06 21:00:00', 'good');
INSERT INTO `mydb`.`car` (`registrationNo`, `checkDate`, `carCondition`) VALUES ('C0009',
'2006-02-04 21:00:00', 'tyre flat');
INSERT INTO `mydb`.`car` (`registrationNo`, `checkDate`, `carCondition`) VALUES ('C0010',
'2006-02-05 21:00:00', 'good');
INSERT INTO `mydb`.`car` (`registrationNo`, `checkDate`, `carCondition`) VALUES ('C0011',
'2006-02-06 21:00:00', 'good');
INSERT INTO `mydb`.`car` (`registrationNo`, `checkDate`, `carCondition`) VALUES ('C0012',
'2020-02-04 21:00:00', 'good');
INSERT INTO `mydb`.`car` (`registrationNo`, `checkDate`, `carCondition`) VALUES ('C0013',
'2020-02-05 21:00:00', 'brake is broken');
```

```
INSERT INTO `mydb`.`car` (`registrationNo`, `checkDate`, `carCondition`) VALUES ('C0014',
'2020-02-06 21:00:00', 'good');
INSERT INTO `mydb`.`car` (`registrationNo`, `checkDate`, `carCondition`) VALUES ('C0015',
'2020-02-06 21:00:00', 'good');
INSERT INTO `mydb`.`car` (`registrationNo`, `checkDate`, `carCondition`) VALUES ('C0016',
'2020-03-03 19:30:00', 'tyre flat');

INSERT INTO `mydb`.`carregistration` (`staffNo`, `registrationNo`) VALUES ('A0001', 'C0001');
INSERT INTO `mydb`.`carregistration` (`staffNo`, `registrationNo`) VALUES ('A0002', 'C0002');
INSERT INTO `mydb`.`carregistration` (`staffNo`, `registrationNo`) VALUES ('A0003', 'C0003');
INSERT INTO `mydb`.`carregistration` (`staffNo`, `registrationNo`) VALUES ('A0005', 'C0004');
INSERT INTO `mydb`.`carregistration` (`staffNo`, `registrationNo`) VALUES ('A0007', 'C0005');
INSERT INTO `mydb`.`carregistration` (`staffNo`, `registrationNo`) VALUES ('A0008', 'C0006');
INSERT INTO `mydb`.`carregistration` (`staffNo`, `registrationNo`) VALUES ('A0009', 'C0007');
INSERT INTO `mydb`.`carregistration` (`staffNo`, `registrationNo`) VALUES ('A0011', 'C0008');
INSERT INTO `mydb`.`carregistration` (`staffNo`, `registrationNo`) VALUES ('A0012', 'C0009');
INSERT INTO `mydb`.`carregistration` (`staffNo`, `registrationNo`) VALUES ('A0013', 'C0010');
INSERT INTO `mydb`.`carregistration` (`staffNo`, `registrationNo`) VALUES ('A0017', 'C0011');
INSERT INTO `mydb`.`carregistration` (`staffNo`, `registrationNo`) VALUES ('A0018', 'C0012');
INSERT INTO `mydb`.`carregistration` (`staffNo`, `registrationNo`) VALUES ('A0019', 'C0013');
INSERT INTO `mydb`.`carregistration` (`staffNo`, `registrationNo`) VALUES ('A0021', 'C0014');
INSERT INTO `mydb`.`carregistration` (`staffNo`, `registrationNo`) VALUES ('A0022', 'C0015');
INSERT INTO `mydb`.`carregistration` (`staffNo`, `registrationNo`) VALUES ('A0023', 'C0016');

INSERT INTO `mydb`.`clientregistration` (`registerDate`, `payMethod`, `OFFICE_officeNo`,
`CLIENT_clientNo`) VALUES ('1999-12-05 07:00:00', 'Single', 'A0001', 'A0001');
INSERT INTO `mydb`.`clientregistration` (`registerDate`, `payMethod`, `OFFICE_officeNo`,
`CLIENT_clientNo`) VALUES ('1999-12-06 07:00:00', 'Interchangeable', 'A0001', 'A0002');
INSERT INTO `mydb`.`clientregistration` (`registerDate`, `payMethod`, `OFFICE_officeNo`,
`CLIENT_clientNo`) VALUES ('2014-06-02 07:30:00', 'Single', 'A0002', 'A0003');
INSERT INTO `mydb`.`clientregistration` (`registerDate`, `payMethod`, `OFFICE_officeNo`,
`CLIENT_clientNo`) VALUES ('2011-06-04 07:00:00', 'Single', 'A0003', 'A0004');
INSERT INTO `mydb`.`clientregistration` (`registerDate`, `payMethod`, `OFFICE_officeNo`,
`CLIENT_clientNo`) VALUES ('2007-06-09 06:30:00', 'Interchangeable', 'A0004', 'A0005');
INSERT INTO `mydb`.`clientregistration` (`registerDate`, `payMethod`, `OFFICE_officeNo`,
`CLIENT_clientNo`) VALUES ('1995-06-23 07:00:00', 'Single', 'A0005', 'A0006');

INSERT INTO `mydb`.`learning` (`clientNo`, `lessonStartTime`, `lessonNo`) VALUES ('A0001',
'1999-12-09 10:00:00', '1');
INSERT INTO `mydb`.`learning` (`clientNo`, `lessonStartTime`, `lessonNo`) VALUES ('A0001',
'1999-12-09 09:00:00', '2');
INSERT INTO `mydb`.`learning` (`clientNo`, `lessonStartTime`, `lessonNo`) VALUES ('A0001',
'1999-12-08 10:00:00', '3');
INSERT INTO `mydb`.`learning` (`clientNo`, `lessonStartTime`, `lessonNo`) VALUES ('A0001',
'1999-12-08 09:00:00', '4');
INSERT INTO `mydb`.`learning` (`clientNo`, `lessonStartTime`, `lessonNo`) VALUES ('A0002',
'1999-12-10 10:00:00', '1');
```

```
INSERT INTO `mydb`.`learning` (`clientNo`, `lessonStartTime`, `lessonNo`) VALUES ('A0002',
'1999-12-10 15:00:00', '2');
INSERT INTO `mydb`.`learning` (`clientNo`, `lessonStartTime`, `lessonNo`) VALUES ('A0002',
'1999-12-11 10:00:00', '3');
INSERT INTO `mydb`.`learning` (`clientNo`, `lessonStartTime`, `lessonNo`) VALUES ('A0002',
'1999-12-11 15:00:00', '4');
INSERT INTO `mydb`.`learning` (`clientNo`, `lessonStartTime`, `lessonNo`) VALUES ('A0003',
'2014-06-05 13:00:00', '1');
INSERT INTO `mydb`.`learning` (`clientNo`, `lessonStartTime`, `lessonNo`) VALUES ('A0003',
'2014-06-05 14:00:00', '2');
INSERT INTO `mydb`.`learning` (`clientNo`, `lessonStartTime`, `lessonNo`) VALUES ('A0003',
'2014-06-06 09:00:00', '3');
INSERT INTO `mydb`.`learning` (`clientNo`, `lessonStartTime`, `lessonNo`) VALUES ('A0003',
'2014-06-07 09:00:00', '4');
INSERT INTO `mydb`.`learning` (`clientNo`, `lessonStartTime`, `lessonNo`) VALUES ('A0004',
'2011-06-10 16:00:00', '1');
INSERT INTO `mydb`.`learning` (`clientNo`, `lessonStartTime`, `lessonNo`) VALUES ('A0004',
'2011-06-10 17:00:00', '2');
INSERT INTO `mydb`.`learning` (`clientNo`, `lessonStartTime`, `lessonNo`) VALUES ('A0004',
'2011-06-11 16:00:00', '3');
INSERT INTO `mydb`.`learning` (`clientNo`, `lessonStartTime`, `lessonNo`) VALUES ('A0004',
'2011-06-11 17:00:00', '4');
INSERT INTO `mydb`.`learning` (`clientNo`, `lessonStartTime`, `lessonNo`) VALUES ('A0005',
'2007-06-20 18:00:00', '1');
INSERT INTO `mydb`.`learning` (`clientNo`, `lessonStartTime`, `lessonNo`) VALUES ('A0005',
'2007-06-20 19:00:00', '2');
INSERT INTO `mydb`.`learning` (`clientNo`, `lessonStartTime`, `lessonNo`) VALUES ('A0005',
'2007-06-21 18:00:00', '3');
INSERT INTO `mydb`.`learning` (`clientNo`, `lessonStartTime`, `lessonNo`) VALUES ('A0005',
'2007-06-21 19:00:00', '4');
INSERT INTO `mydb`.`learning` (`clientNo`, `lessonStartTime`, `lessonNo`) VALUES ('A0006',
'1995-07-01 08:00:00', '1');
INSERT INTO `mydb`.`learning` (`clientNo`, `lessonStartTime`, `lessonNo`) VALUES ('A0006',
'1995-07-01 15:00:00', '2');
INSERT INTO `mydb`.`learning` (`clientNo`, `lessonStartTime`, `lessonNo`) VALUES ('A0006',
'1995-07-02 08:00:00', '3');
INSERT INTO `mydb`.`learning` (`clientNo`, `lessonStartTime`, `lessonNo`) VALUES ('A0006',
'1995-07-02 15:00:00', '4');

INSERT INTO `mydb`.`test` (`clientNo`, `testStartTime`, `failReason`, `pickUp`) VALUES
('A0001', '2000-01-09 14:00:00', '', 'Yes');
INSERT INTO `mydb`.`test` (`clientNo`, `testStartTime`, `failReason`, `pickUp`) VALUES
('A0002', '2000-01-12 14:00:00', 'operation mistake', 'Yes');
INSERT INTO `mydb`.`test` (`clientNo`, `testStartTime`, `failReason`, `pickUp`) VALUES
('A0002', '2000-01-15 14:00:00', 'operation mistake', 'Yes');
INSERT INTO `mydb`.`test` (`clientNo`, `testStartTime`, `failReason`, `pickUp`) VALUES
('A0002', '2000-01-20 14:00:00', 'not wearing a seat belt', 'Yes');
```

```
INSERT INTO `mydb`.`test` (`clientNo`, `testStartTime`, `failReason`, `pickUp`) VALUES
('A0002', '2000-01-24 14:00:00', 'operation mistake', 'Yes');
INSERT INTO `mydb`.`test` (`clientNo`, `testStartTime`, `failReason`, `pickUp`) VALUES
('A0003', '2014-07-01 13:00:00', 'operation mistake', 'Yes');
INSERT INTO `mydb`.`test` (`clientNo`, `testStartTime`, `failReason`, `pickUp`) VALUES
('A0003', '2014-07-03 13:00:00', '', 'No');
INSERT INTO `mydb`.`test` (`clientNo`, `testStartTime`, `failReason`, `pickUp`) VALUES
('A0004', '2011-07-01 09:00:00', '','No');
INSERT INTO `mydb`.`test` (`clientNo`, `testStartTime`, `failReason`, `pickUp`) VALUES
('A0005', '2007-07-01 15:00:00', '', 'Yes');
INSERT INTO `mydb`.`test` (`clientNo`, `testStartTime`, `failReason`, `pickUp`) VALUES
('A0006', '1995-07-01 10:00:00', 'not wearing a seat belt', 'Yes');
INSERT INTO `mydb`.`test` (`clientNo`, `testStartTime`, `failReason`, `pickUp`) VALUES
('A0006', '1995-07-03 10:00:00', 'operation mistake', 'Yes');
INSERT INTO `mydb`.`test` (`clientNo`, `testStartTime`, `failReason`, `pickUp`) VALUES
('A0006', '1995-07-12 10:00:00', 'operation mistake', 'No');
INSERT INTO `mydb`.`test` (`clientNo`, `testStartTime`, `failReason`, `pickUp`) VALUES
('A0006', '1995-07-15 10:00:00', 'operation mistake', 'No');

INSERT INTO `mydb`.`learningmileage` (`clientNo`, `lessonStartTime`, `mileage`) VALUES
('A0001', '1999-12-08 09:00:00', '21');
INSERT INTO `mydb`.`learningmileage` (`clientNo`, `lessonStartTime`, `mileage`) VALUES
('A0001', '1999-12-08 10:00:00', '23');
INSERT INTO `mydb`.`learningmileage` (`clientNo`, `lessonStartTime`, `mileage`) VALUES
('A0001', '1999-12-09 09:00:00', '24');
INSERT INTO `mydb`.`learningmileage` (`clientNo`, `lessonStartTime`, `mileage`) VALUES
('A0001', '1999-12-09 10:00:00', '25');
INSERT INTO `mydb`.`learningmileage` (`clientNo`, `lessonStartTime`, `mileage`) VALUES
('A0002', '1999-12-10 10:00:00', '14');
INSERT INTO `mydb`.`learningmileage` (`clientNo`, `lessonStartTime`, `mileage`) VALUES
('A0002', '1999-12-10 15:00:00', '14');
INSERT INTO `mydb`.`learningmileage` (`clientNo`, `lessonStartTime`, `mileage`) VALUES
('A0002', '1999-12-11 10:00:00', '15');
INSERT INTO `mydb`.`learningmileage` (`clientNo`, `lessonStartTime`, `mileage`) VALUES
('A0002', '1999-12-11 15:00:00', '21');
INSERT INTO `mydb`.`learningmileage` (`clientNo`, `lessonStartTime`, `mileage`) VALUES
('A0003', '2014-06-05 13:00:00', '21');
INSERT INTO `mydb`.`learningmileage` (`clientNo`, `lessonStartTime`, `mileage`) VALUES
('A0003', '2014-06-05 14:00:00', '24');
INSERT INTO `mydb`.`learningmileage` (`clientNo`, `lessonStartTime`, `mileage`) VALUES
('A0003', '2014-06-06 09:00:00', '12');
INSERT INTO `mydb`.`learningmileage` (`clientNo`, `lessonStartTime`, `mileage`) VALUES
('A0003', '2014-06-07 09:00:00', '14');
INSERT INTO `mydb`.`learningmileage` (`clientNo`, `lessonStartTime`, `mileage`) VALUES
('A0004', '2011-06-10 16:00:00', '15');
INSERT INTO `mydb`.`learningmileage` (`clientNo`, `lessonStartTime`, `mileage`) VALUES
('A0004', '2011-06-10 17:00:00', '21');
```

```
INSERT INTO `mydb`.`learningmileage` (`clientNo`, `lessonStartTime`, `mileage`) VALUES
('A0004', '2011-06-11 16:00:00', '21');
INSERT INTO `mydb`.`learningmileage` (`clientNo`, `lessonStartTime`, `mileage`) VALUES
('A0004', '2011-06-11 17:00:00', '16');
INSERT INTO `mydb`.`learningmileage` (`clientNo`, `lessonStartTime`, `mileage`) VALUES
('A0005', '2007-06-20 18:00:00', '17');
INSERT INTO `mydb`.`learningmileage` (`clientNo`, `lessonStartTime`, `mileage`) VALUES
('A0005', '2007-06-20 19:00:00', '13');
INSERT INTO `mydb`.`learningmileage` (`clientNo`, `lessonStartTime`, `mileage`) VALUES
('A0005', '2007-06-21 18:00:00', '4');
INSERT INTO `mydb`.`learningmileage` (`clientNo`, `lessonStartTime`, `mileage`) VALUES
('A0005', '2007-06-21 19:00:00', '16');
INSERT INTO `mydb`.`learningmileage` (`clientNo`, `lessonStartTime`, `mileage`) VALUES
('A0006', '1995-07-01 08:00:00', '12');
INSERT INTO `mydb`.`learningmileage` (`clientNo`, `lessonStartTime`, `mileage`) VALUES
('A0006', '1995-07-01 15:00:00', '15');
INSERT INTO `mydb`.`learningmileage` (`clientNo`, `lessonStartTime`, `mileage`) VALUES
('A0006', '1995-07-02 08:00:00', '25');
INSERT INTO `mydb`.`learningmileage` (`clientNo`, `lessonStartTime`, `mileage`) VALUES
('A0006', '1995-07-02 15:00:00', '22');

INSERT INTO `mydb`.`learningcar` (`registrationNo`, `clientNo`) VALUES ('C0001', 'A0001');
INSERT INTO `mydb`.`learningcar` (`registrationNo`, `clientNo`) VALUES ('C0003', 'A0002');
INSERT INTO `mydb`.`learningcar` (`registrationNo`, `clientNo`) VALUES ('C0002', 'A0002');
INSERT INTO `mydb`.`learningcar` (`registrationNo`, `clientNo`) VALUES ('C0006', 'A0003');
INSERT INTO `mydb`.`learningcar` (`registrationNo`, `clientNo`) VALUES ('C0009', 'A0004');
INSERT INTO `mydb`.`learningcar` (`registrationNo`, `clientNo`) VALUES ('C0011', 'A0005');
INSERT INTO `mydb`.`learningcar` (`registrationNo`, `clientNo`) VALUES ('C0012', 'A0005');
INSERT INTO `mydb`.`learningcar` (`registrationNo`, `clientNo`) VALUES ('C0014', 'A0006');

INSERT INTO `mydb`.`timetable` (`timeTableNo`, `staffNo`, `registerDate`, `weekNo`)
VALUES ('1', 'A0001', '1999-12-05 07:00:00', '1999-49');
INSERT INTO `mydb`.`timetable` (`timeTableNo`, `staffNo`, `lessonStartTime`, `weekNo`)
VALUES ('2', 'A0001', '1999-12-08 09:00:00', '1999-50');
INSERT INTO `mydb`.`timetable` (`timeTableNo`, `staffNo`, `lessonStartTime`, `weekNo`)
VALUES ('3', 'A0001', '1999-12-08 10:00:00', '1999-50');
INSERT INTO `mydb`.`timetable` (`timeTableNo`, `staffNo`, `lessonStartTime`, `weekNo`)
VALUES ('4', 'A0001', '1999-12-09 09:00:00', '1999-50');
INSERT INTO `mydb`.`timetable` (`timeTableNo`, `staffNo`, `lessonStartTime`, `weekNo`)
VALUES ('5', 'A0001', '1999-12-09 10:00:00', '1999-50');
INSERT INTO `mydb`.`timetable` (`timeTableNo`, `staffNo`, `registerDate`, `weekNo`)
VALUES ('6', 'A0003', '1999-12-06 07:00:00', '1999-50');
INSERT INTO `mydb`.`timetable` (`timeTableNo`, `staffNo`, `lessonStartTime`, `weekNo`)
VALUES ('7', 'A0003', '1999-12-10 10:00:00', '1999-50');
INSERT INTO `mydb`.`timetable` (`timeTableNo`, `staffNo`, `lessonStartTime`, `weekNo`)
VALUES ('8', 'A0002', '1999-12-10 15:00:00', '1999-50');
```

```
INSERT INTO `mydb`.`timetable` (`timeTableNo`, `staffNo`, `lessonStartTime`, `weekNo`)
VALUES ('9', 'A0002', '1999-12-11 10:00:00', '1999-50');
INSERT INTO `mydb`.`timetable` (`timeTableNo`, `staffNo`, `lessonStartTime`, `weekNo`)
VALUES ('10', 'A0002', '1999-12-11 15:00:00', '1999-50');
INSERT INTO `mydb`.`timetable` (`timeTableNo`, `staffNo`, `testStartTime`, `weekNo`)
VALUES ('11', 'A0003', '2000-01-09 14:00:00', '2000-02');
INSERT INTO `mydb`.`timetable` (`timeTableNo`, `staffNo`, `testStartTime`, `weekNo`)
VALUES ('12', 'A0003', '2000-01-12 14:00:00', '2000-03');
INSERT INTO `mydb`.`timetable` (`timeTableNo`, `staffNo`, `testStartTime`, `weekNo`)
VALUES ('13', 'A0003', '2000-01-15 14:00:00', '2000-03');
INSERT INTO `mydb`.`timetable` (`timeTableNo`, `staffNo`, `testStartTime`, `weekNo`)
VALUES ('14', 'A0003', '2000-01-20 14:00:00', '2000-04');
INSERT INTO `mydb`.`timetable` (`timeTableNo`, `staffNo`, `testStartTime`, `weekNo`)
VALUES ('15', 'A0003', '2000-01-24 14:00:00', '2000-05');
INSERT INTO `mydb`.`timetable` (`timeTableNo`, `staffNo`, `registerDate`, `weekNo`)
VALUES ('16', 'A0007', '2014-06-02 07:30:00', '2014-23');
INSERT INTO `mydb`.`timetable` (`timeTableNo`, `staffNo`, `lessonStartTime`, `weekNo`)
VALUES ('17', 'A0008', '2014-06-05 13:00:00', '2014-23');
INSERT INTO `mydb`.`timetable` (`timeTableNo`, `staffNo`, `lessonStartTime`, `weekNo`)
VALUES ('18', 'A0008', '2014-06-05 14:00:00', '2014-23');
INSERT INTO `mydb`.`timetable` (`timeTableNo`, `staffNo`, `lessonStartTime`, `weekNo`)
VALUES ('19', 'A0008', '2014-06-06 09:00:00', '2014-23');
INSERT INTO `mydb`.`timetable` (`timeTableNo`, `staffNo`, `lessonStartTime`, `weekNo`)
VALUES ('20', 'A0008', '2014-06-07 09:00:00', '2014-23');
INSERT INTO `mydb`.`timetable` (`timeTableNo`, `staffNo`, `testStartTime`, `weekNo`)
VALUES ('21', 'A0009', '2014-07-03 13:00:00', '2014-27');
INSERT INTO `mydb`.`timetable` (`timeTableNo`, `staffNo`, `registerDate`, `weekNo`)
VALUES ('22', 'A0012', '2011-06-04 07:00:00', '2011-23');
INSERT INTO `mydb`.`timetable` (`timeTableNo`, `staffNo`, `lessonStartTime`, `weekNo`)
VALUES ('23', 'A0012', '2011-06-10 16:00:00', '2011-24');
INSERT INTO `mydb`.`timetable` (`timeTableNo`, `staffNo`, `lessonStartTime`, `weekNo`)
VALUES ('24', 'A0012', '2011-06-10 17:00:00', '2011-24');
INSERT INTO `mydb`.`timetable` (`timeTableNo`, `staffNo`, `lessonStartTime`, `weekNo`)
VALUES ('25', 'A0012', '2011-06-11 16:00:00', '2011-24');
INSERT INTO `mydb`.`timetable` (`timeTableNo`, `staffNo`, `lessonStartTime`, `weekNo`)
VALUES ('26', 'A0012', '2011-06-11 17:00:00', '2011-24');
INSERT INTO `mydb`.`timetable` (`timeTableNo`, `staffNo`, `testStartTime`, `weekNo`)
VALUES ('27', 'A0011', '2011-07-01 09:00:00', '2011-27');
INSERT INTO `mydb`.`timetable` (`timeTableNo`, `staffNo`, `registerDate`, `weekNo`)
VALUES ('28', 'A0016', '2007-06-09 06:30:00', '2007-23');
INSERT INTO `mydb`.`timetable` (`timeTableNo`, `staffNo`, `lessonStartTime`, `weekNo`)
VALUES ('29', 'A0017', '2007-06-20 18:00:00', '2007-25');
INSERT INTO `mydb`.`timetable` (`timeTableNo`, `staffNo`, `lessonStartTime`, `weekNo`)
VALUES ('30', 'A0018', '2007-06-20 19:00:00', '2007-25');
INSERT INTO `mydb`.`timetable` (`timeTableNo`, `staffNo`, `lessonStartTime`, `weekNo`)
VALUES ('31', 'A0018', '2007-06-21 18:00:00', '2007-25');
```

```
INSERT INTO `mydb`.`timetable` (`timeTableNo`, `staffNo`, `lessonStartTime`, `weekNo`)
VALUES ('32', 'A0018', '2007-06-21 19:00:00', '2007-25');
INSERT INTO `mydb`.`timetable` (`timeTableNo`, `staffNo`, `testStartTime`, `weekNo`)
VALUES ('33', 'A0019', '2007-07-01 15:00:00', '2007-26');
INSERT INTO `mydb`.`timetable` (`timeTableNo`, `staffNo`, `registerDate`, `weekNo`)
VALUES ('34', 'A0021', '1995-06-23 07:00:00', '1995-26');
INSERT INTO `mydb`.`timetable` (`timeTableNo`, `staffNo`, `lessonStartTime`, `weekNo`)
VALUES ('35', 'A0021', '1995-07-01 08:00:00', '1995-27');
INSERT INTO `mydb`.`timetable` (`timeTableNo`, `staffNo`, `lessonStartTime`, `weekNo`)
VALUES ('36', 'A0021', '1995-07-01 15:00:00', '1995-27');
INSERT INTO `mydb`.`timetable` (`timeTableNo`, `staffNo`, `lessonStartTime`, `weekNo`)
VALUES ('37', 'A0021', '1995-07-02 08:00:00', '1995-27');
INSERT INTO `mydb`.`timetable` (`timeTableNo`, `staffNo`, `lessonStartTime`, `weekNo`)
VALUES ('38', 'A0021', '1995-07-02 15:00:00', '1995-27');
INSERT INTO `mydb`.`timetable` (`timeTableNo`, `staffNo`, `testStartTime`, `weekNo`)
VALUES ('39', 'A0023', '1995-07-01 10:00:00', '1995-27');
INSERT INTO `mydb`.`timetable` (`timeTableNo`, `staffNo`, `testStartTime`, `weekNo`)
VALUES ('40', 'A0023', '1995-07-03 10:00:00', '1995-28');
INSERT INTO `mydb`.`timetable` (`timeTableNo`, `staffNo`, `testStartTime`, `weekNo`)
VALUES ('41', 'A0023', '1995-07-12 10:00:00', '1995-29');
INSERT INTO `mydb`.`timetable` (`timeTableNo`, `staffNo`, `testStartTime`, `weekNo`)
VALUES ('42', 'A0023', '1995-07-15 10:00:00', '1995-29');
INSERT INTO `mydb`.`timetable` (`timeTableNo`, `staffNo`, `testStartTime`, `weekNo`)
VALUES ('43', 'A0009', '2014-07-01 13:00:00', '2014-27');
```

A set of SQL queries for sample queries (listed in Sample Queries), with query results of the output you obtain when you run these queries. (2 marks)

a) SELECT STAFF.firstName, STAFF.lastName, MANAGERPHONE.phoneNumber FROM OFFICE INNER JOIN STAFF ON OFFICE.MANAGER_staffNo = STAFF.staffNo INNER JOIN MANAGERPHONE ON STAFF.staffNo = MANAGERPHONE.staffNo;

b) SELECT officeNo, address FROM OFFICE WHERE city = 'Glasgow';

c) SELECT STAFF.firstName, STAFF.lastName FROM OFFICE INNER JOIN STAFF ON OFFICE.officeNo = STAFF.OFFICE_officeNo WHERE OFFICE.city = 'Glasgow' AND OFFICE.officeName = 'Bearsden' AND STAFF.gender = 'female';

d) SELECT OFFICE_officeNo, COUNT(staffNo) AS 'Staff Number' FROM STAFF GROUP BY OFFICE_officeNo;

e) SELECT city, COUNT(CLIENT_clientNo) FROM CLIENTREGISTRATION INNER JOIN OFFICE ON CLIENTREGISTRATION.OFFICE_officeNo = OFFICE.officeNo GROUP BY city;

f) SELECT staffNo, lessonStartTime, testStartTime, registerDate, weekNo FROM TIMETABLE WHERE staffNo = 'A0001' AND weekNo = '1999-49';

Note: 'A0001' and '1999-49' are the corresponding staffNo and weekNo the user wants to search.

g) SELECT TIMETABLE.staffNo, CLIENT_clientNo, OFFICE_officeNo, payMethod, TIMETABLE.registerDate FROM TIMETABLE, CLIENTREGISTRATION WHERE staffNo = 'A0001' AND TIMETABLE.registerDate = CLIENTREGISTRATION.registerDate;

Note: 'A0001' is the corresponding staffNo the user wants to search.

h) SELECT count(CLIENT_clientNo) FROM CLIENTREGISTRATION WHERE OFFICE_officeNo = (SELECT officeNo FROM OFFICE WHERE officeName = 'Bearsden' and city = 'Glasgow');

i) SELECT staffNo, firstName, lastName FROM STAFF WHERE age>55;

j) SELECT registrationNo FROM CAR WHERE carCondition = "good";

k) SELECT registrationNo FROM CARREGISTRATION WHERE staffNo IN (SELECT staffNo FROM STAFF WHERE OFFICE_officeNo IN (SELECT officeNo FROM OFFICE WHERE officeName = "Bearsden"));

l) SELECT CLIENT.firstName, CLIENT.lastName FROM CLIENT INNER JOIN TEST ON CLIENT.clientNo = TEST.clientNo WHERE TEST.failReason = '' AND strcmp(date_format(TEST.testStartTime,'%Y-%m'),'2000-01') = 0;

m) SELECT firstName, lastName FROM CLIENT WHERE clientNo IN (SELECT clientNo FROM TEST GROUP BY clientNo HAVING COUNT(clientNo) >3);

n) SELECT AVG(mileage) AS avgMile FROM LEARNINGMILEAGE;

o) SELECT OFFICE_officeNo, staffType, COUNT(staffNo) AS AdministrativeStaffNumber FROM STAFF WHERE staffType = 'Administrative Staff' GROUP BY OFFICE_officeNo;