Applied Databases
Topic 5 Exercise Sheet

1. Get bus.sql from Moodle and import it into MySQL.

2. How are the tables in the database related?

3. Add the following drivers:
   "Mary"
   "Bob" – licence number "RN2423"
   "Sean" – licence number "FF88345" who drives bus "191-G-123"
   What happens and why?

4. Add the following buses:
   "12-G-1323" that can hold up to 34 passengers and runs on "Diesel"
   "171-G-885" that can hold up to 84 passengers and runs on "Petrol"
   "191-D-45890" that can hold up to 120 passengers and runs on "Ethanol"
   What happens and why?

5. Update driver's licences that contain the letters "F" or "R" to have the letters "T-" before their current licence number.

6. Delete driver "Alan". What happens and why?

7. Delete bus "161-d-1323". What happens and why?

8. Get bus2.sql from Moodle and import it into MySQL. To use this database type `use bus2;`

9. Delete bus "161-d-1323". What happens and why?

10. Get employees2.sql from Moodle and import it into MySQL. To use this database type `use employees2;`

11. Show the *emp_no*, *first_name* and *last_name* of employees born in the *average* year.
    The average year should be rounded down to the nearest whole number. For example,
    - 1949.1 becomes 1949.
    - 1949.9 becomes 1949.
    - 1949.0 becomes 1949.

12. Show the *emp_no*, *first_name*, *last_name* and name of the department each employee is in.