**Applied Databases**

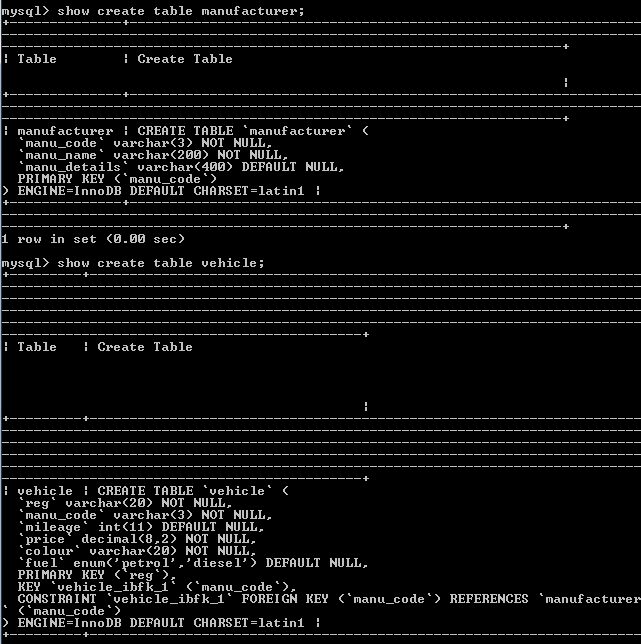
**Topic 4 Exercise Sheet**

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

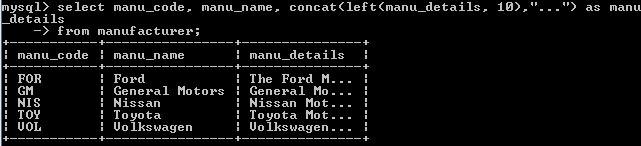
2. How are the tables in the database related?

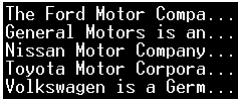
Manu\_code is the link between both tables



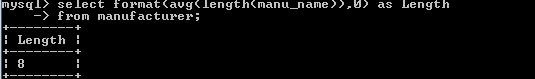


3. Show the manu\_code, manu\_name and the first 10 characters of the manu\_details followed by three dots (…) for each manufacturer.



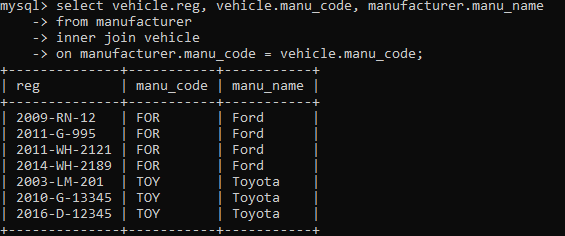


4. Show the average length of the manu\_name (displayed as “Length”) with 0 characters after the decimal point. HINT: Functions needed are avg(), length() and format().

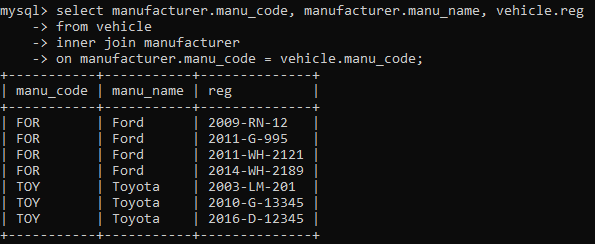


5. Show all details of all vehicles plus an extra column called “cost” which has the value 1.45 if the fuel is petrol otherwise has the value 1.30.

6. Show all the reg, manu\_code and associated manu\_name for each vehicle.



7. Show the manu\_code and manu\_name as well as associated reg, for each manufacturer who has vehicles listed in the vehicle table.



8. Show the manu\_code and manu\_name as well as associated reg, for all manufacturers and if they have vehicles listed in the vehicle table, show the reg of it.

9. Write a stored procedure called price\_less\_than that takes one parameter of type decimal(8,2) which represents the price of a vehicle: price\_less\_than(p decimal(8,2)) The procedure should then return the following details for all vehicles where the price of the vehicle is less than p sorted by ascending price:

• Reg

• Manu\_code

• Manu\_name

• Mileage

• Price