**Fundamentals of Databases – Weeks 2**

**Solutions will be available next week**

1. Practice drawing ERD’s using QSEE for the following specifications.

Don’t forget to include optionality where appropriate.

a) A student can take many modules a module may be taken by many students.

1. A house may have many tenants; a tenant will rent only one house. Some houses may be empty.
2. In a medical practice patients are registered with one doctor, a doctor will have many patients registered with them.
3. Draw an ERD and list the attributes for each entity.

In the same medical practice as c) above, in addition to StaffID, name, address, phone, National Insurance No. there are a range of other details kept about staff e.g. Medical staff have a grade and qualification. Nurses and admin staff each have a supervisor.

1. Leeds Laser Clinic (from last week’s activity)

Draw an ERD for the case study, you should have done the analysis last week.

Leeds Laser Clinic is a private clinic offering a range of treatments for the correction of minor skin blemishes. Some treatments are one offs but others require a number of separate appointments to complete a series of parts of the treatment.

The first appointment the patient has with the clinic is always solely for a consultation with the consultant, and the result of this is usually an agreed program of treatment and the first treatment appointment is made. In some cases, however, the patient’s GP has to be contacted to check the previous medical history, so a second consultation appointment will need to be made before any treatment appointments can be made. The treatment appointments are made with a range of staff at the Clinic. Some treatments must be completed by the consultant others by one of the 3 doctors who work at the clinic.

The initial consultation is free; charges are made for each program of treatment. Payment can be made for a whole series of treatments up front or a patient can chose to pay for each part of a series of treatments at each separate appointment. Payments can be made by cash, cheque, debit or credit card. No treatments will be given unless they have already been paid for.