First assessed coursework

Weighting: 5% of the course mark

Deadline: 14 March at 16:00.

How to submit: on paper to the School office. The diagram has to be neat and readable to get full marks. (I don’t want to spend ages puzzling over what it is supposed to depict.)

The question (from a previous exam paper, slightly modified):

“A database will be made to store information about patients in a hospital. On arrival, each patient’s personal details (name, address, and telephone number) are recorded where possible, and they are given an admission number. They are then assigned to a particular ward (Accident and Emergency, Cardiology, Oncology, etc.). In each ward there are a number of doctors and nurses. A patient will be treated by one doctor and several nurses over the course of their stay, and each doctor and nurse may be involved with several patients at any given time.”

1. Identify the entities, attributes, relationships, and cardinality ratios from the description.
2. Draw an entity-relationship diagram showing the items you identified.
3. Show the corresponding SQL tables. (Use CREATE TABLE in any dialect of SQL which has foreign keys, or just list, in English, table names, column names and foreign keys for each table.)