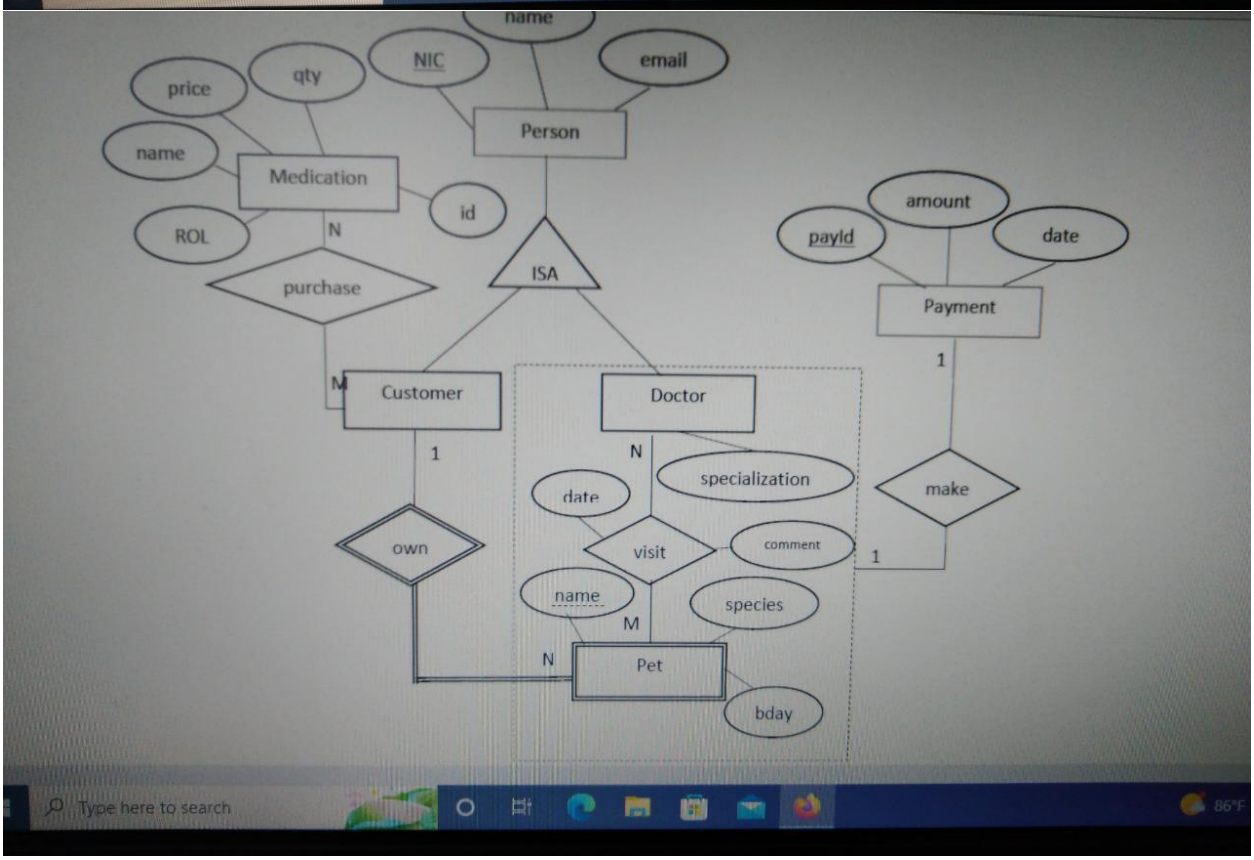
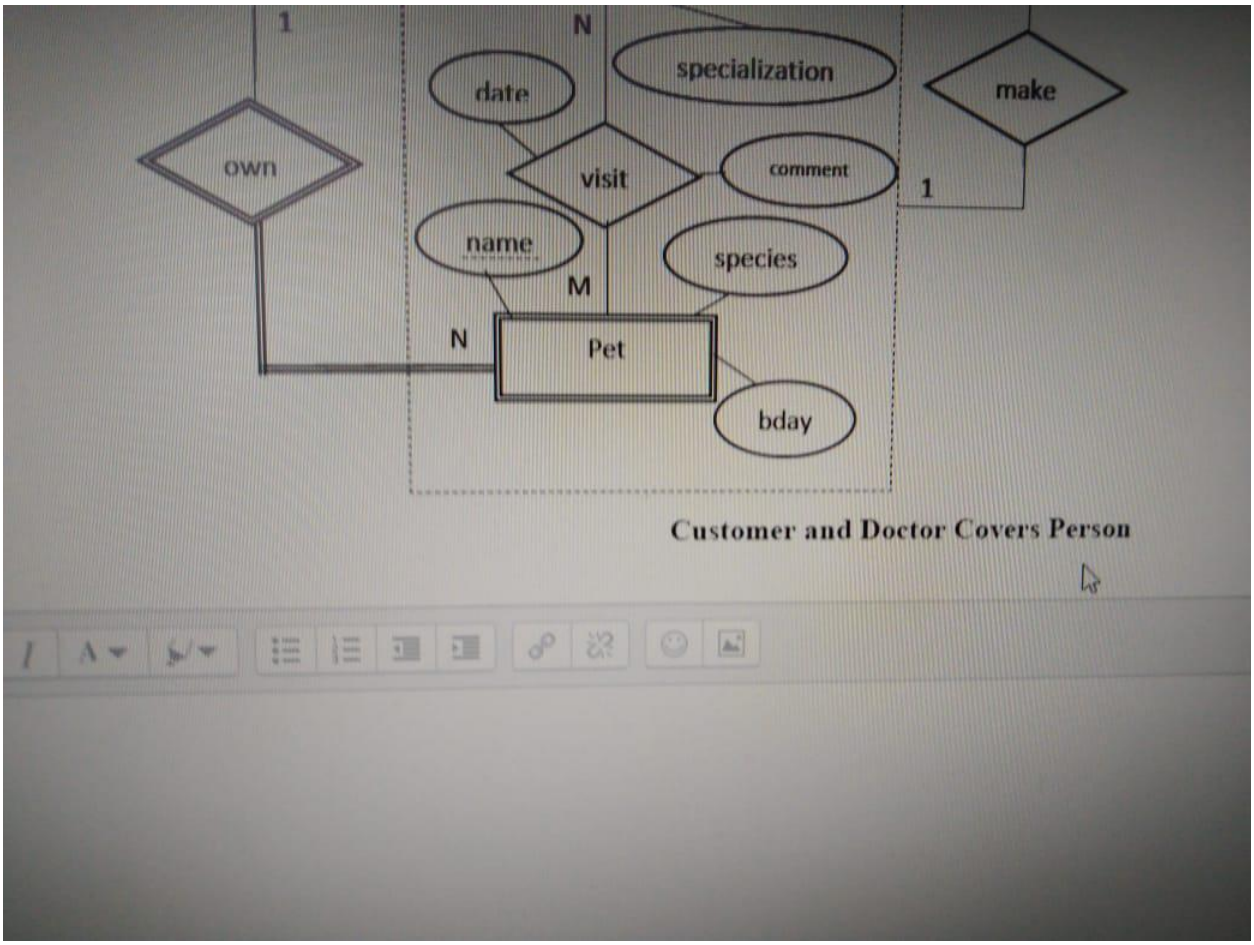
Question 1 Not yet answered Not graded Flag question

Consider the following requirements for a Movie company database:

The movie company owns several Actors and Directors. For each Actor and Director a unique identification number is used to identify them separately. The database also stores name, address and a birthdate for all actors and directors. For each Film the title, year of production and type is stored. Movie with same name can repeat in multiple years. The database also keeps track of who directed and who acted in each Film. Every Film has one Director. Actors act in films. An Actor can receive an Award for his/her part in a Film. For each award the database stores the name of the award and the year it is awarded. The name of the award and the awarded year uniquely identifies an award. Each award has a sponsor. The database stores the name of the sponsor (unique), phone number and an address.

Draw the EER for the above scenario.





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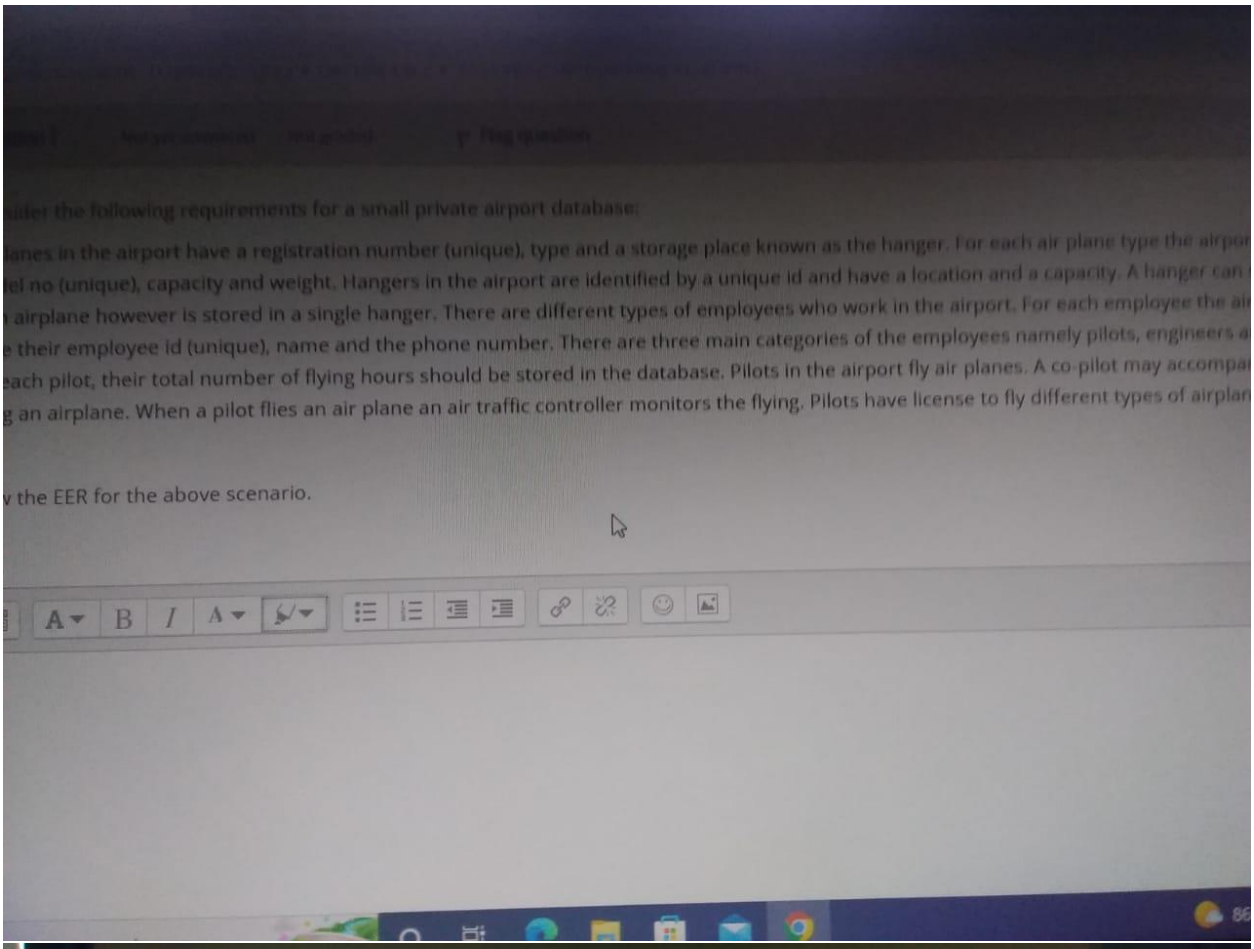
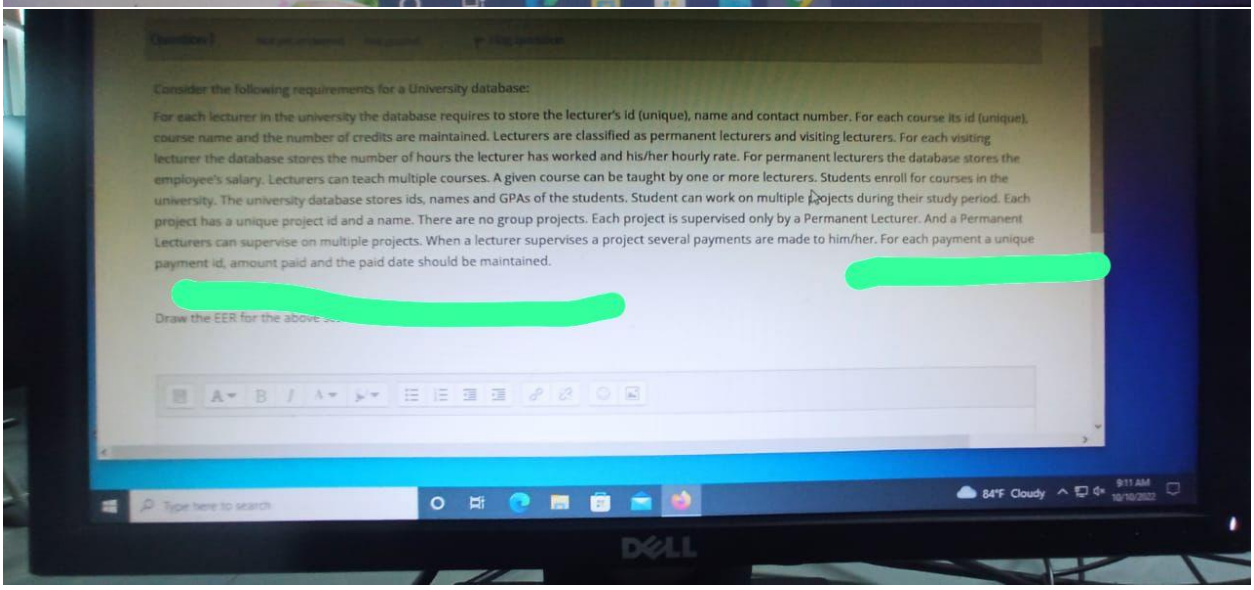

sider the following requirements for a small private airport database:
lanes in the airport have a registration number (unique), type and a storage place known as the hanger. For each air plane type the airpor
el no (unique), capacity and weight. Hangers in the airport are identified by a unique id and have a location and a capacity. A hanger can
airplane however is stored in a single hanger. There are different types of employees who work in the airport. For each employee the ai
e their employee id (unique), name and the phone number. There are three main categories of the employees namely pilots, engineers a
ach pilot, their total number of flying hours should be stored in the database. Pilots in the airport fly air planes. A co-pilot may accompa
g an airplane. When a pilot flies an air plane an air traffic controller monitors the flying. Pilots have license to fly different types of airplan
v the EER for the above scenario.


Consider the following requirements for a University database:
For each lecturer in the university the database requires to store the lecturer's id (unique), name and contact number. For each course its id (unique), course name and the number of credits are maintained. Lecturers are classified as permanent lecturers and visiting lecturers. For each visiting lecturer the database stores the number of hours the lecturer has worked and his/her hourly rate. For permanent lecturers the database stores the employee's salary. Lecturers can teach multiple courses. A given course can be taught by one or more lecturers. Students enroll for courses in the university. The university database stores ids, names and GPAs of the students. Student can work on multiple projects during their study period. Each project has a unique project id and a name. There are no group projects. Each project is supervised only by a Permanent Lecturer. And a Permanent Lecturers can supervise on multiple projects. When a lecturer supervises a project several payments are made to him/her. For each payment a unique payment id, amount paid and the paid date should be maintained.
Draw the EER for the above
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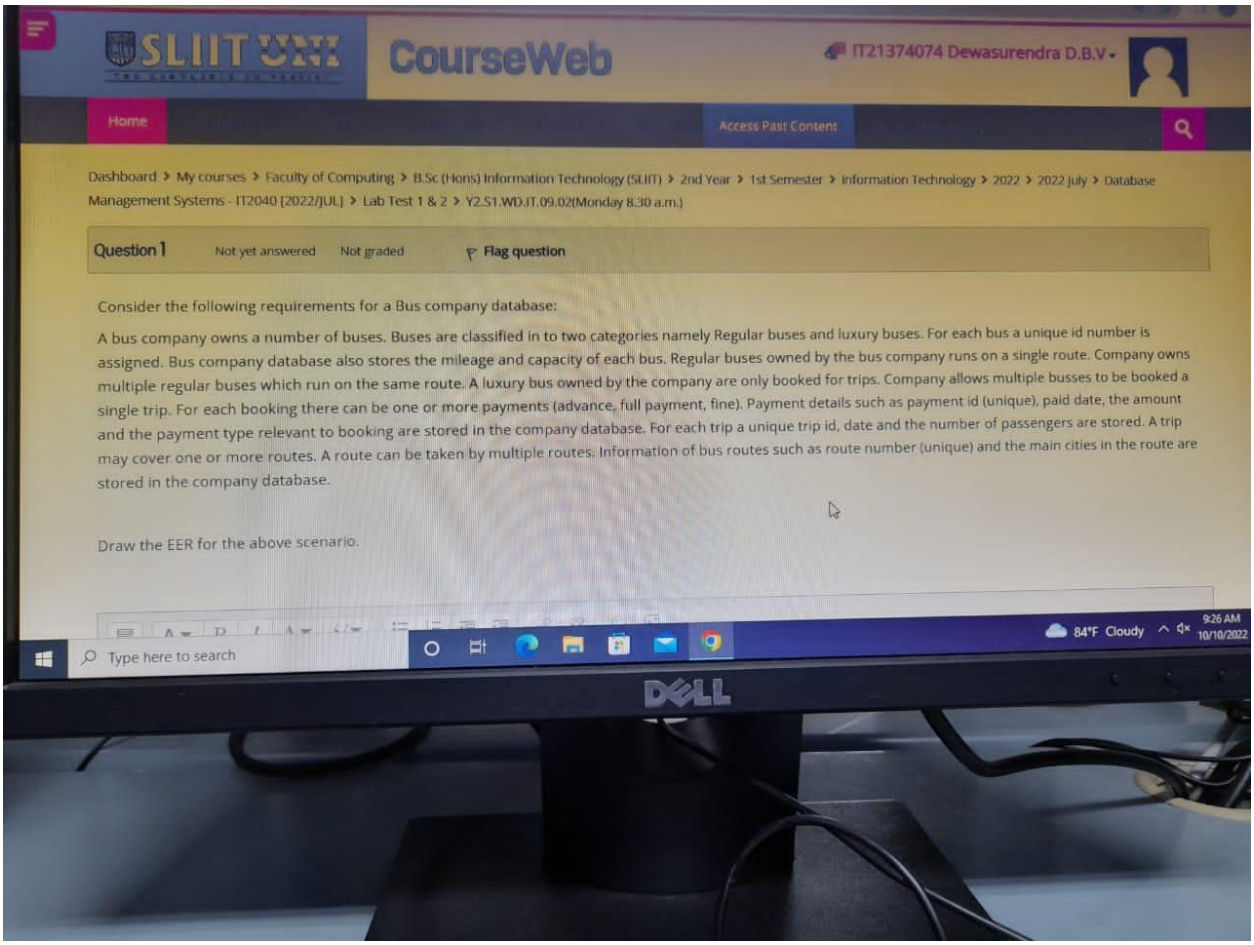
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Question 1
Not yet answered
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Flag question
Consider the following requirements for a Bus company database:
A bus company owns a number of buses. Buses are classified in to two categories namely Regular buses and luxury buses. For each bus a unique id number is assigned. Bus company database also stores the mileage and capacity of each bus. Regular buses owned by the bus company runs on a single route. Company owns multiple regular buses which run on the same route. A luxury bus owned by the company are only booked for trips. Company allows multiple busses to be booked a single trip. For each booking there can be one or more payments (advance, full payment, fine). Payment details such as payment id (unique), paid date, the amount and the payment type relevant to booking are stored in the company database. For each trip a unique trip id, date and the number of passengers are stored. A trip may cover one or more routes. A route can be taken by multiple routes. Information of bus routes such as route number (unique) and the main cities in the route are stored in the company database.
Draw the EER for the above scenario.
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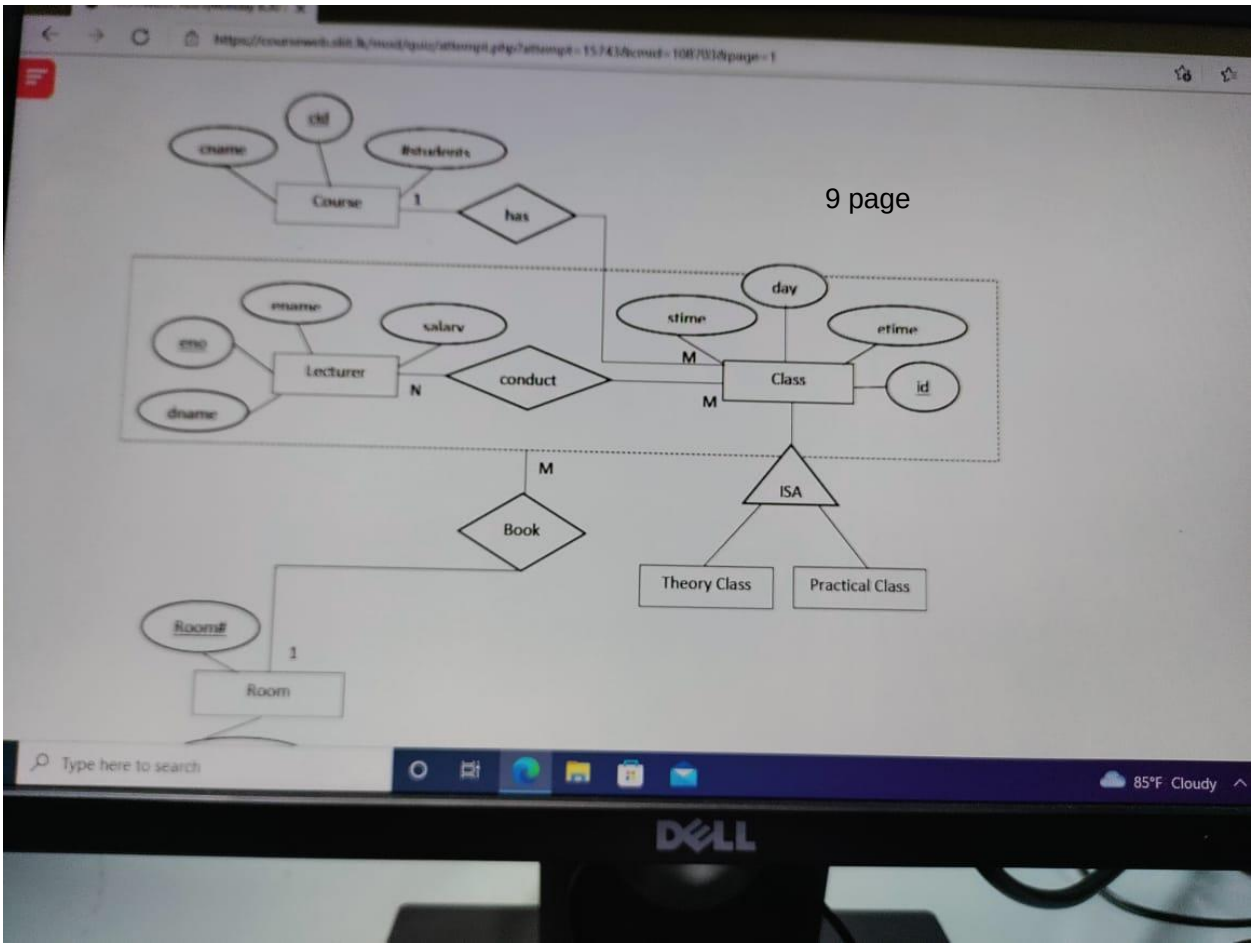
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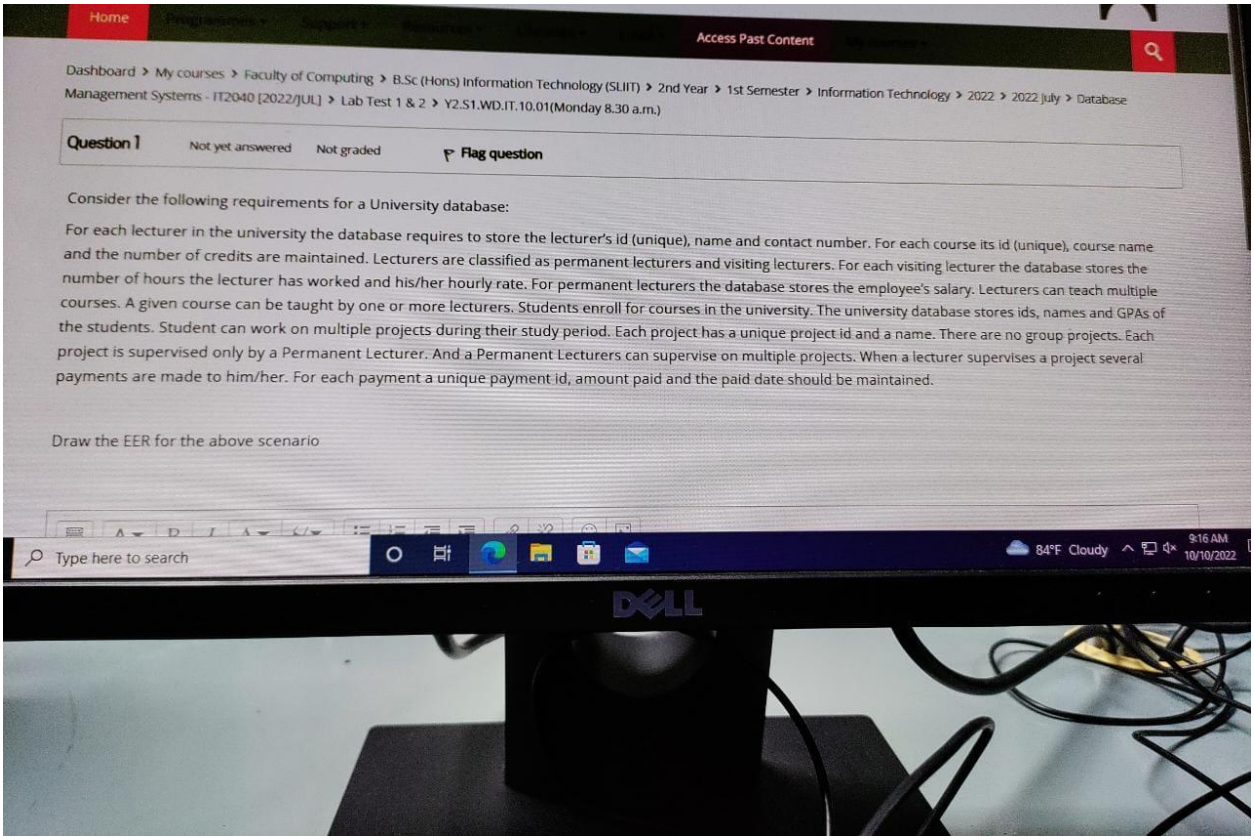
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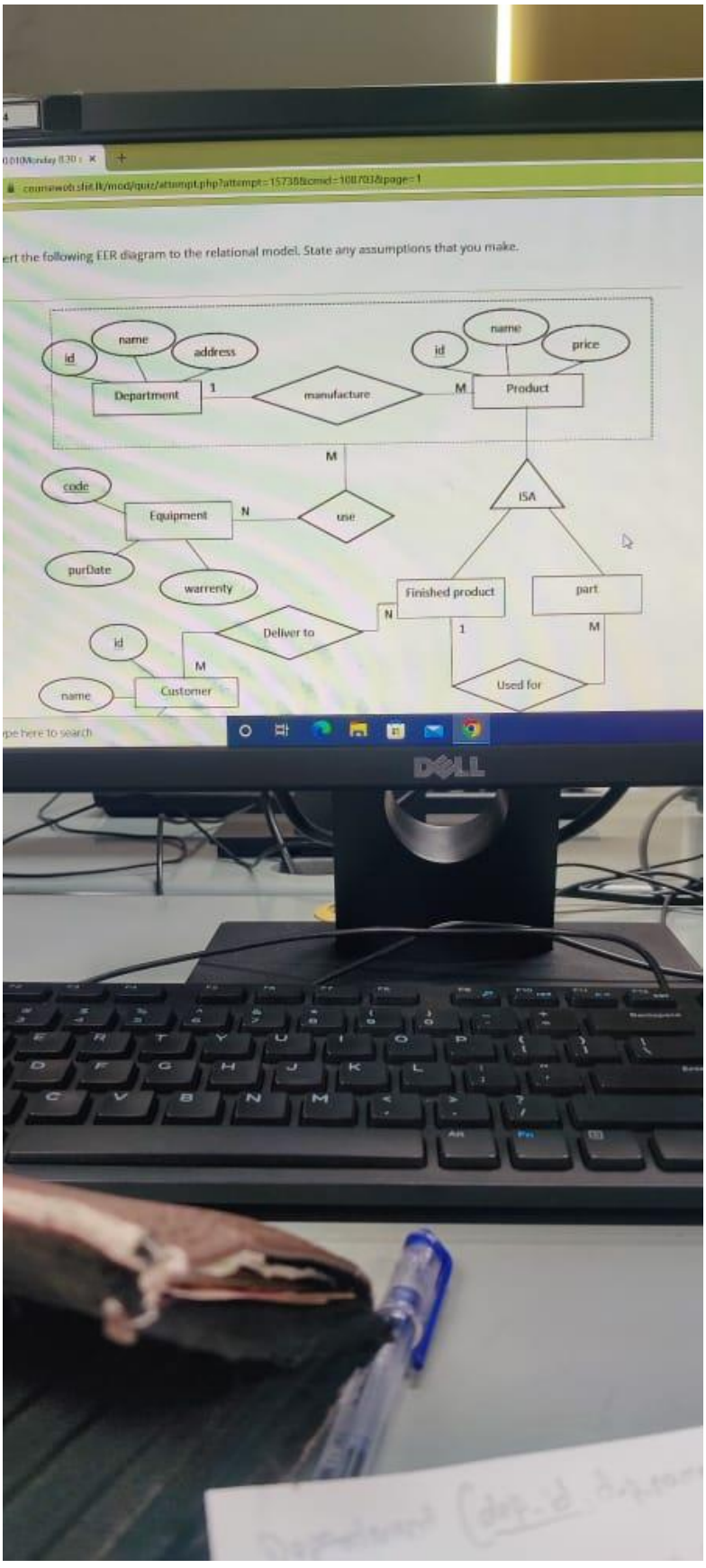
ert the following EER diagram to the relational model. State any assumptions that you make.
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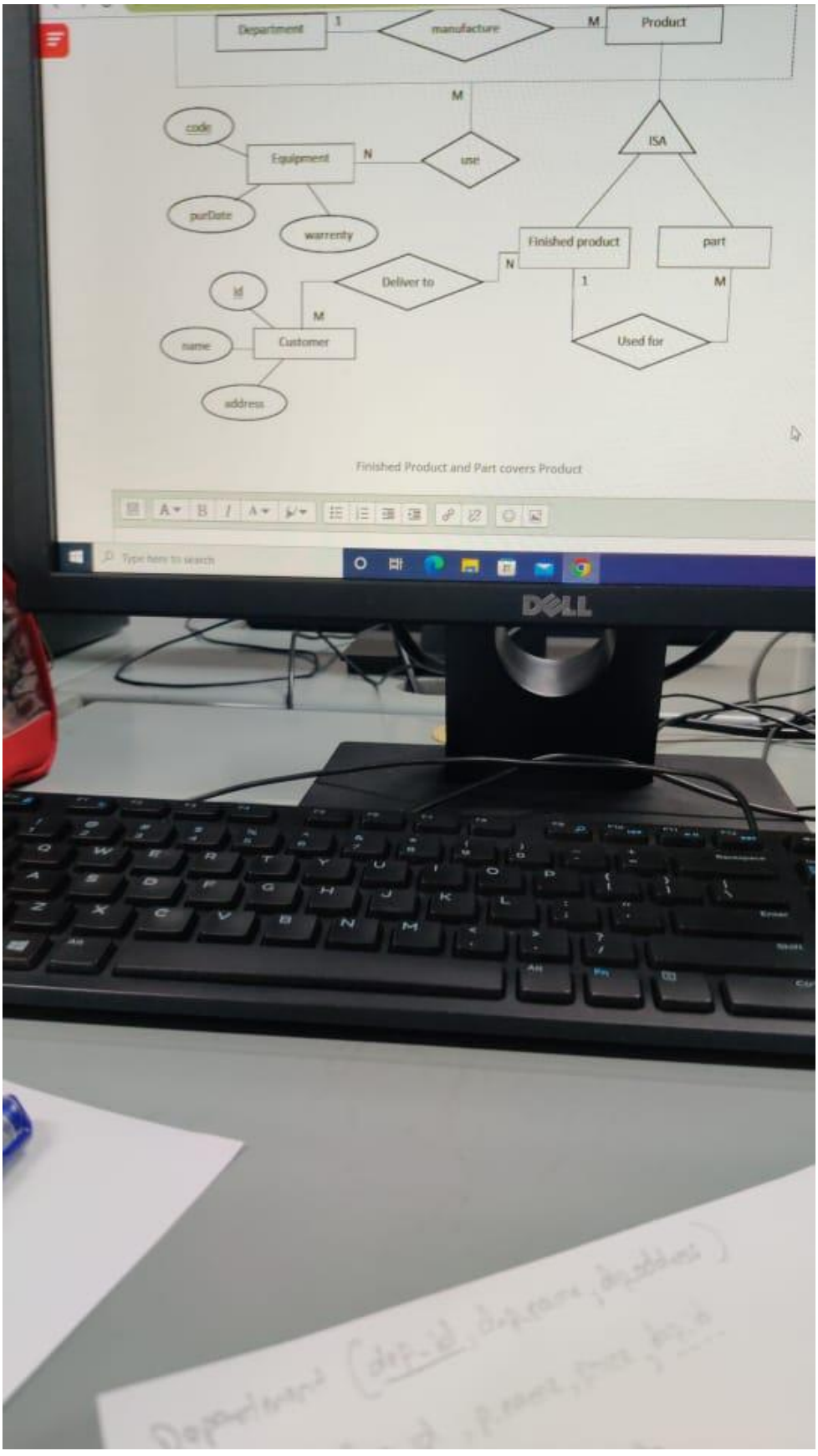
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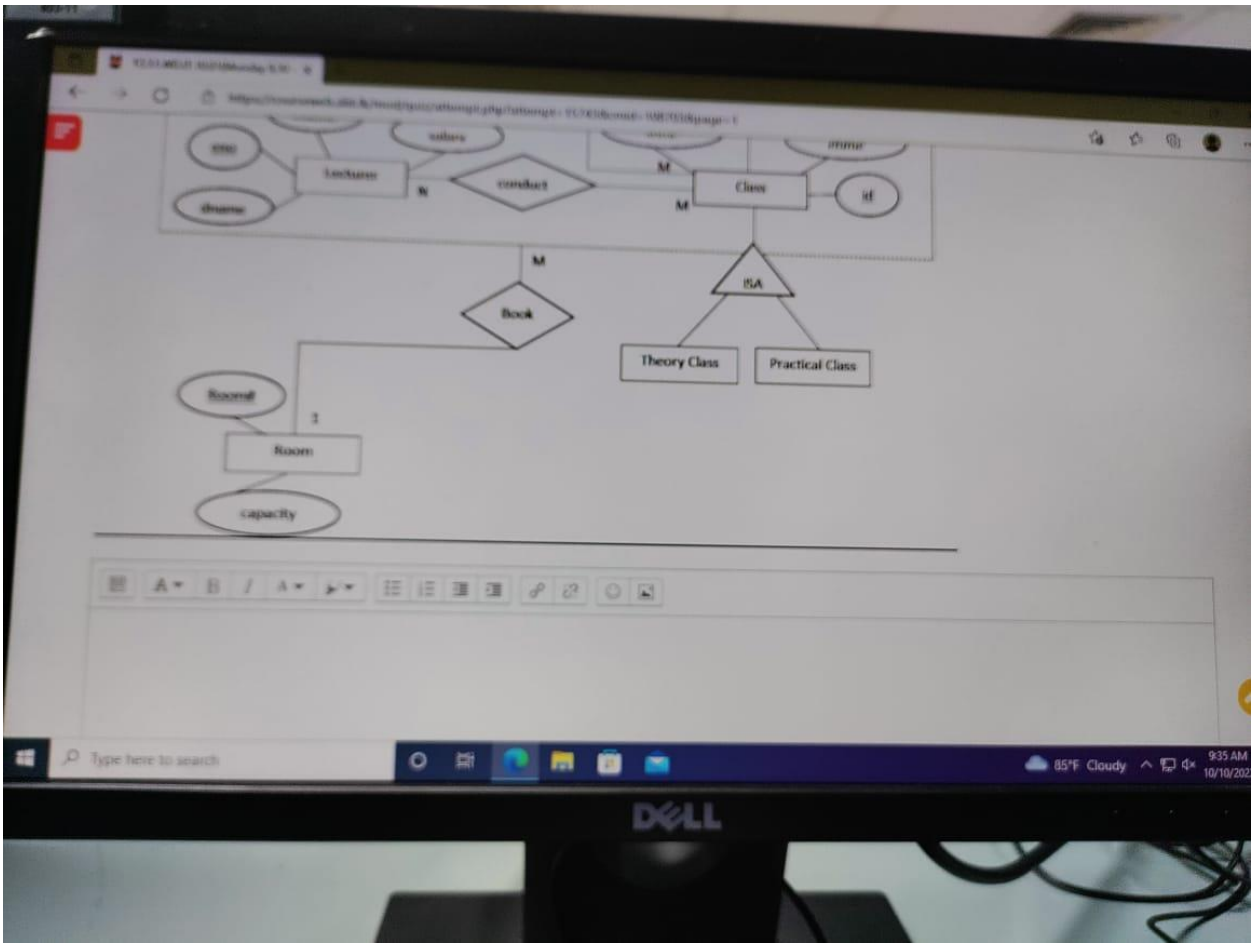
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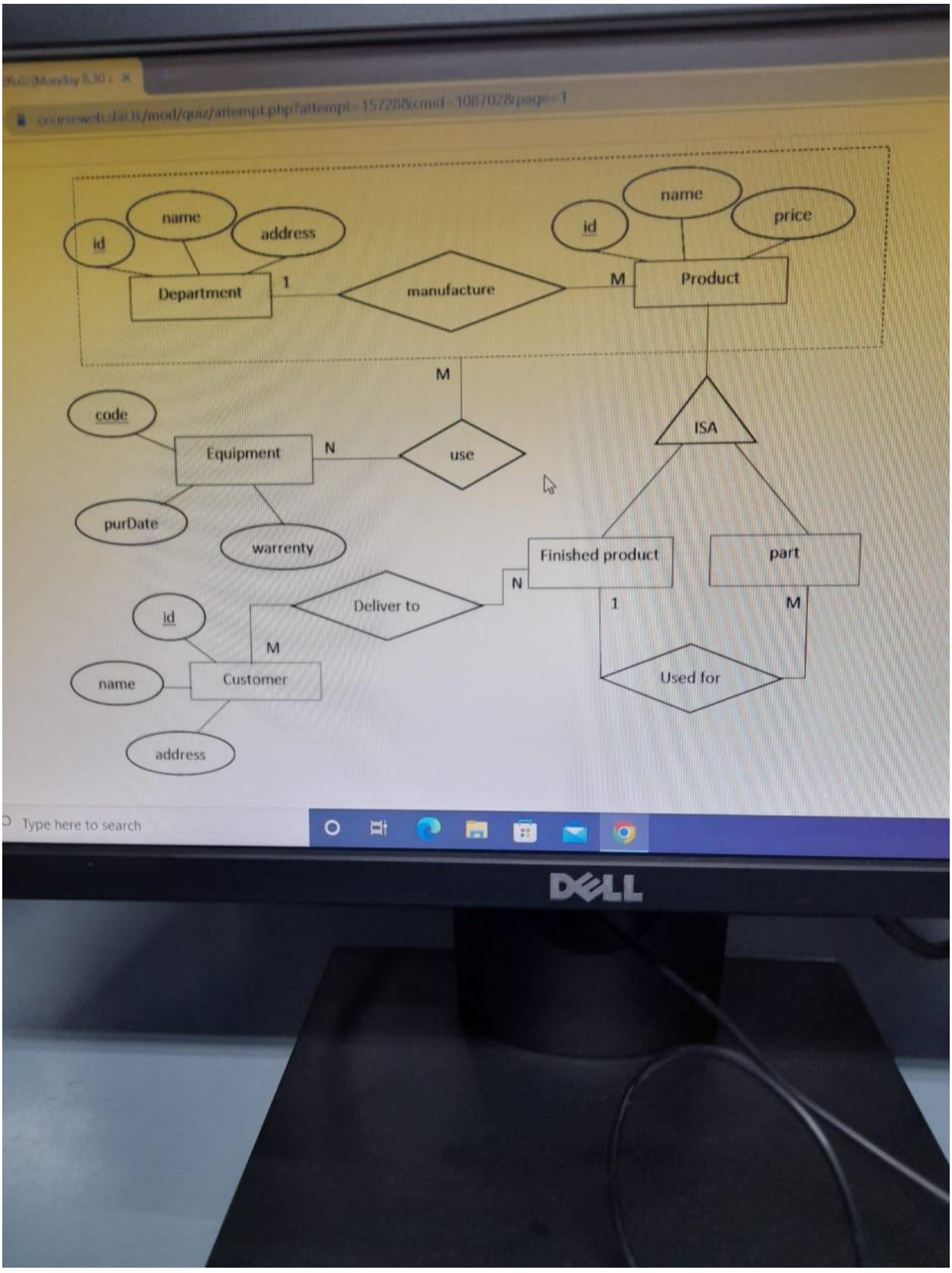
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