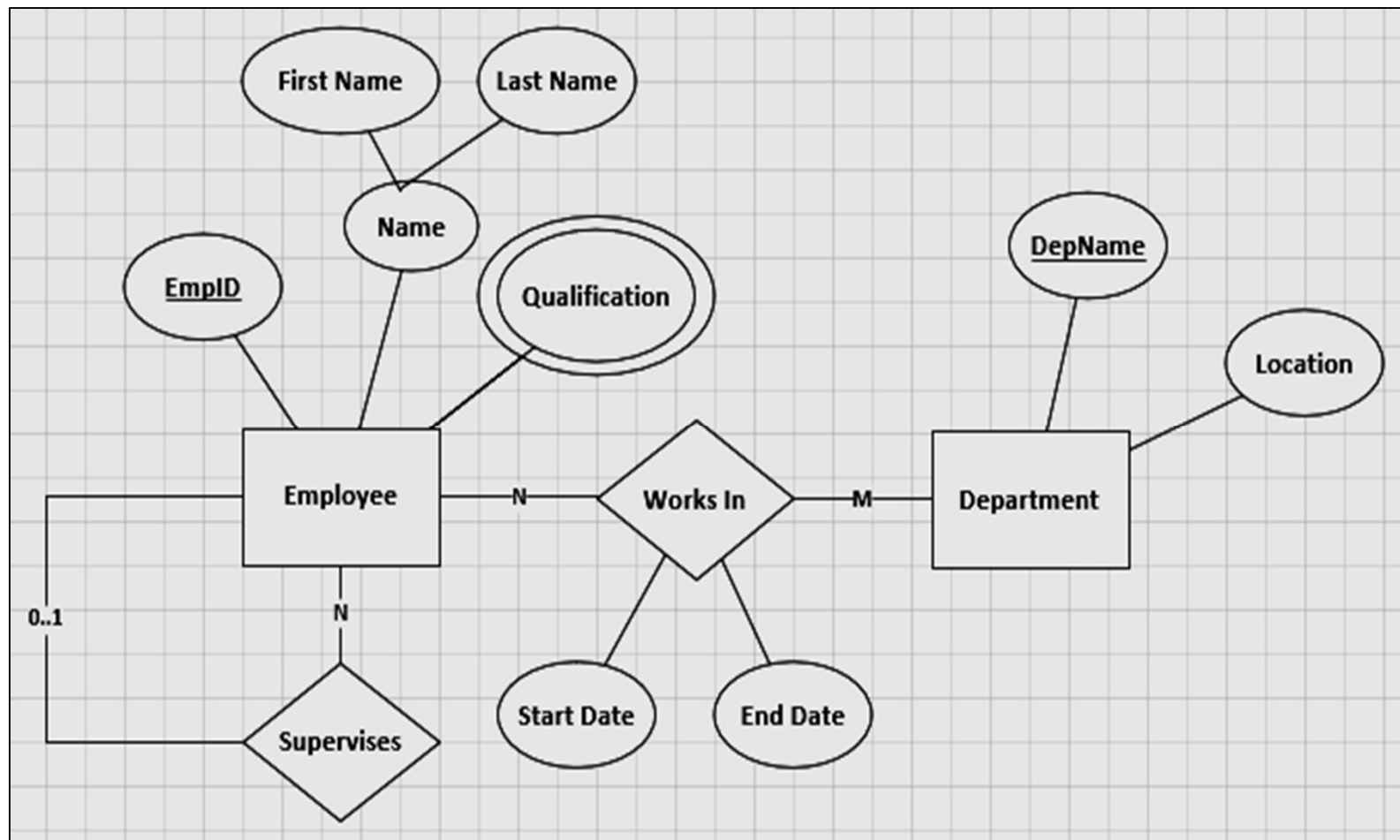




ER Diagram Exercise

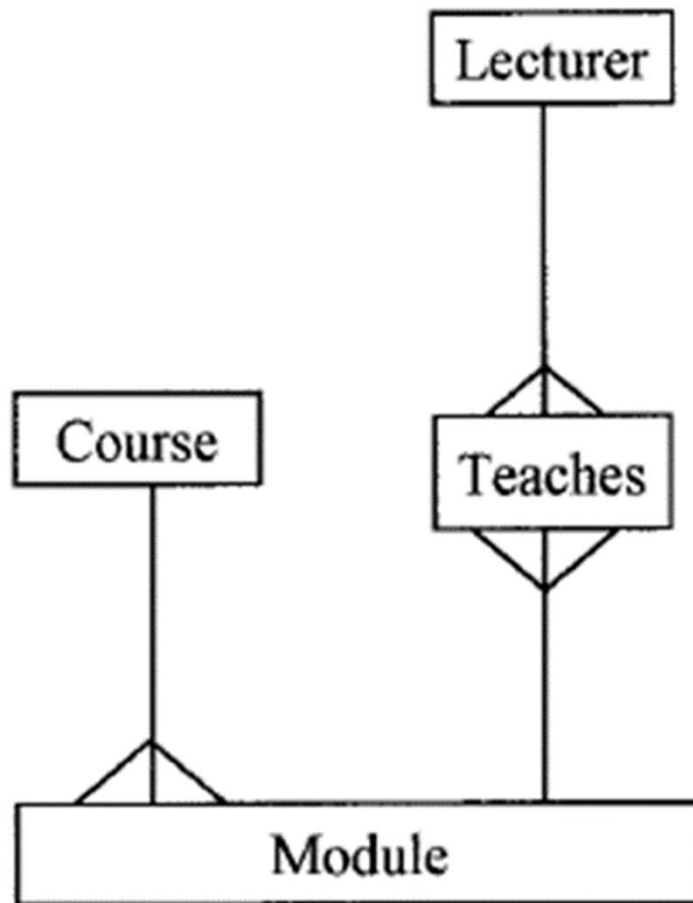
Understanding the ER Diagram

- What information can you get from the E–R diagram?



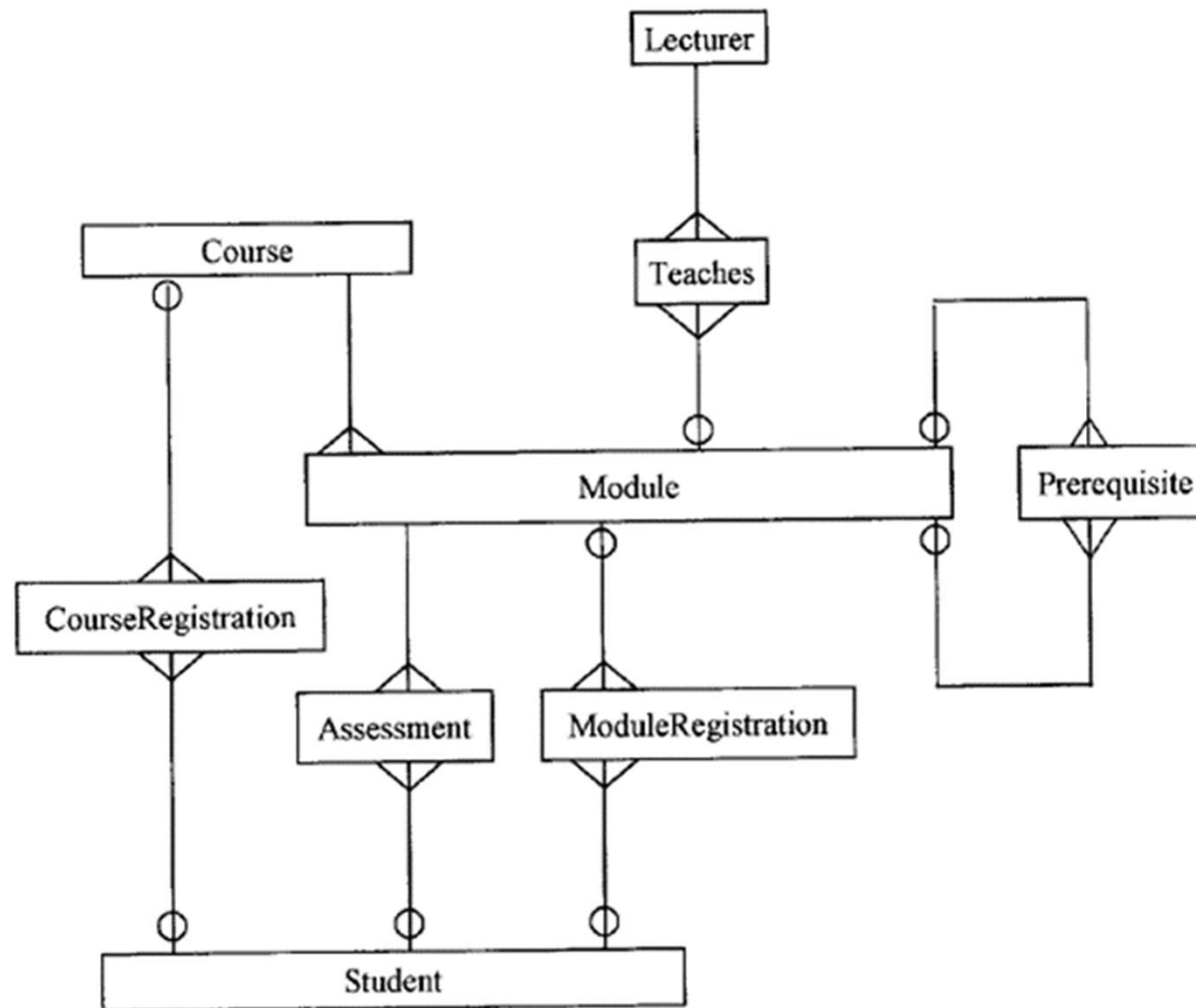
Understanding the ER Diagram

- What information can you get from the E–R diagram?



Understanding the ER Diagram

- What information can you get from the E-R diagram?





Create an ER Diagram

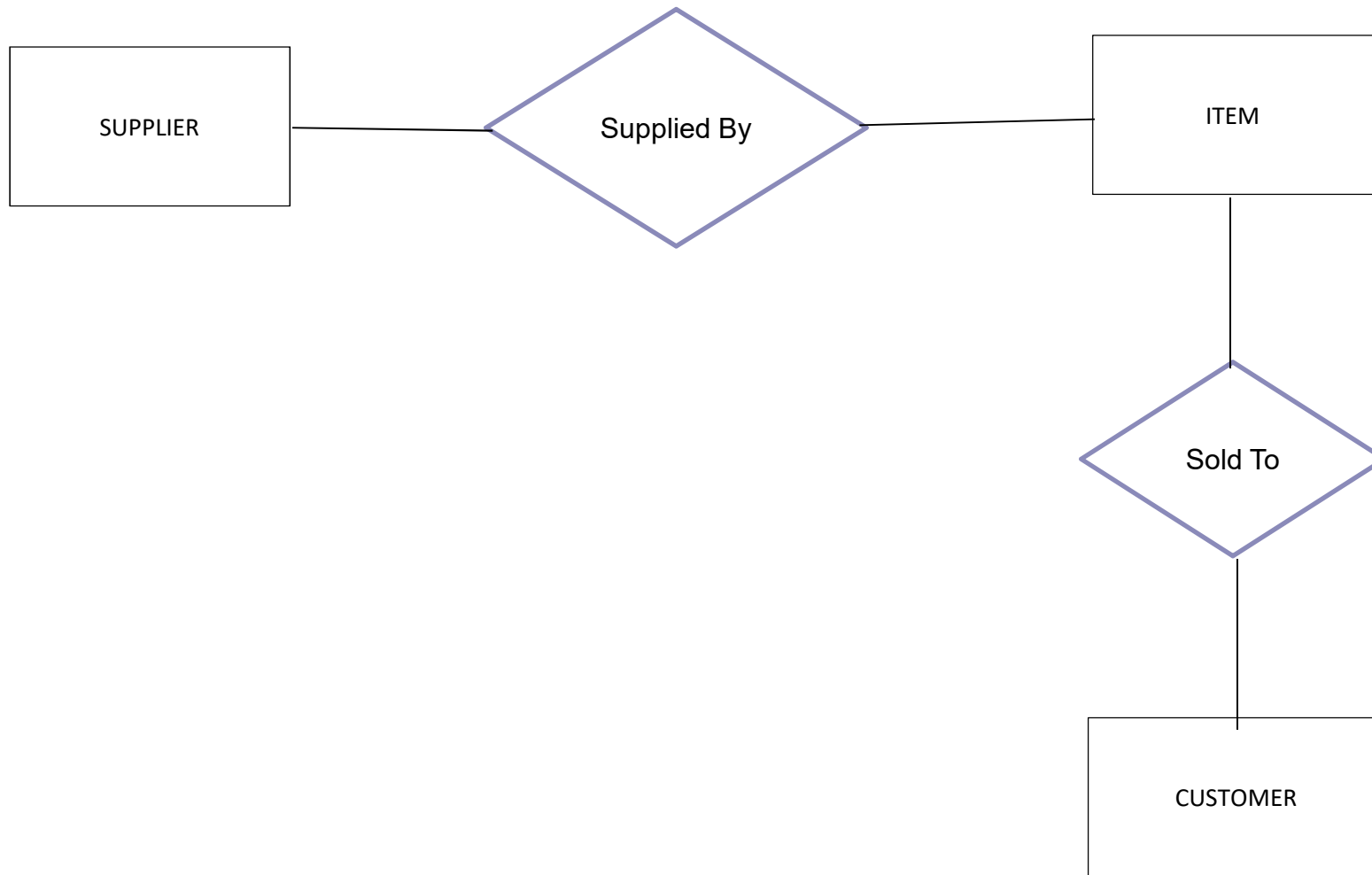
- Produce an E–R diagram which represents the following
 - A supermarket sells different types of items to its customers. Each item has a unique ID(ItemID), a name and unit price. The supermarket needs to keep track of the number of items available in stock. Items are purchased from multiple suppliers. Suppliers have a unique name and a contact telephone number. The same item could be supplied by more than one supplier. The supermarket needs to print the TIN number and name of its customers on each receipt along with the details of the items bought.



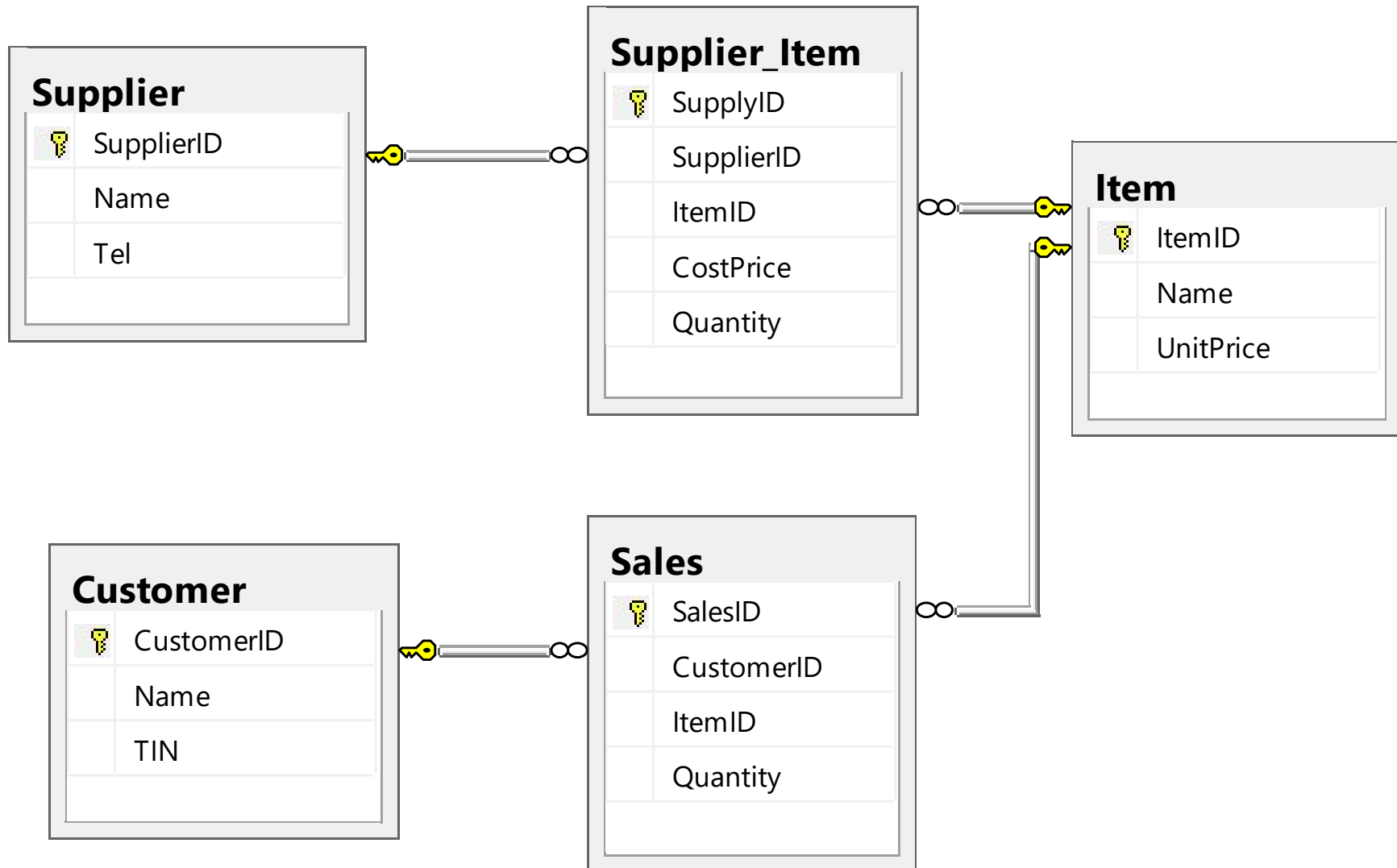
Create an ER Diagram

- Break up the description into
 - A supermarket sells different types of items to its customers.
 - Each item has a unique ID(ItemID), a name and unit price. The supermarket needs to keep track of the number of items available in stock.
 - Items are purchased from multiple suppliers. Suppliers have a unique name and a contact telephone number. The same item could be supplied by more than one supplier.
 - The supermarket needs to print the TIN number and name of its customers on each receipt along with the details of the items bought.

The ER Diagram



Creating the Database





Creating the ER Diagram

- Produce an E–R diagram which represents the following domain of criminal court cases.
 - Each judge has a list of outstanding cases over which she/he will preside. Only one judge presides per case.
 - For each case one prosecuting counsel is appointed to represent the Department of Justice.
 - Each crime can have one or more defendants. Cases are scheduled for a date and court, which can be more than one time.



Creating the ER Diagram

- Produce an E–R diagram which represents the following domain of insurance
 - A policy-holder may have a number of policies with the insurance company. Each policy is given a policy number and relates to a single policy-holder. The company has a range of insurance products and may put together a range of products to form a policy.
 - Examples of motor products are: third party, fire, theft, accident damage, etc.
 - Brokers sell policies for commission and any one policy may have commission payable to more than one broker.
 - Claims are made against policies. A claim relates to only one policy



Assignment I

- Design a conceptual data model (using an E-R diagram) for a **imaginary**
 - ☐ A Student Registration Application
 - ☐ A Video Rental Application
 - ☐ Athletic Federation (Results Recoding) Application
- Assignment (due date: FRIDAY 5th July 2019)
 1. Select one of the applications from the list given above
 2. Give a textual description of the system that you are to model
 3. Draw an ER Diagram that represents your description
 4. ONE page only



Assignment - Format

Name:	Section:
Title:	
Program Description:	
ER Diagram:	