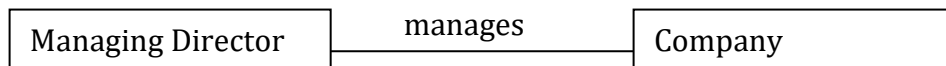


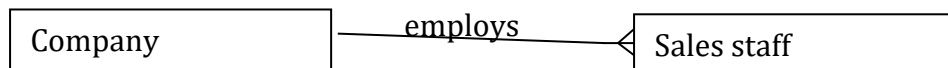
## Lab sheet 3 solution

**Question 1:** Draw an entity relationship diagram for each of the following statements. Label each entity and relationship. Make sure you have the correct cardinality, degree and participation for each relationship.

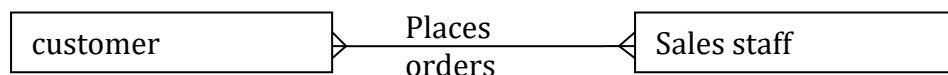
- a) A managing director manages one company



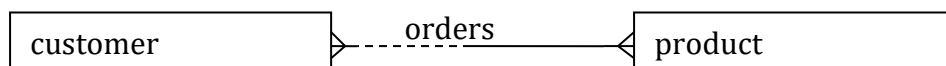
- b) Each company employs one or more Sales staff



- c) Each customer places their orders with one or more Sales staff.  
Each member of the Sales staff takes orders from one or more customers.



- d) A customer can order one or more products. Some products may never have been ordered.



**Question 2:** A large bank operates several departments. A department is managed by one manager and can have many employees. An employee is assigned to one or more project in the bank. A project may be planned, but not have any employees assigned to it for several months. Each project will have a single employee assigned who acts as a project leader.

