

- Question 01 -

Each member of Staff in ABC Company is allocated a single Computer. Information about Computers belonging to staff members is planned to be stored in a database consisting of the following table :-

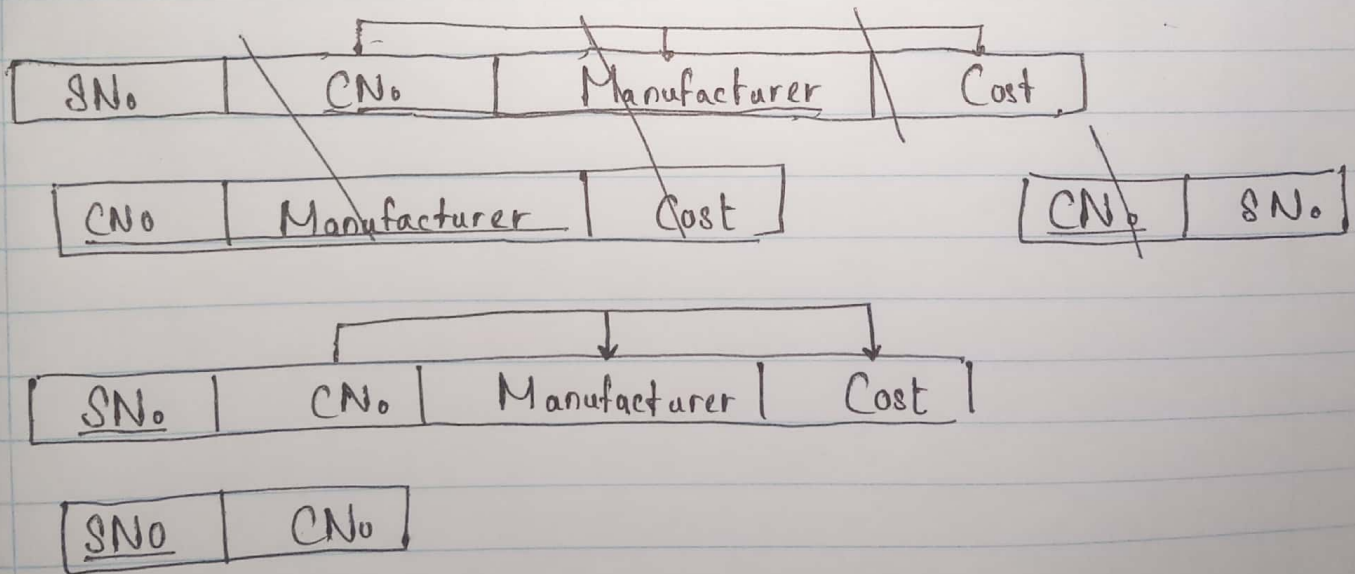
HasComputer (staffNbr, ComputerNbr, Manufacturer, Cost)

Company policy subsequently changes, and some staff are allocated more than one computer (Each computer is still assigned to a single member of staff).

I. Explain why the above table design is not suitable for ABC Company

II. Suggest a new database design to handle the new situation.

HasComputer



- Question 02 -

An agency called "Instant Cover" supplies part-time / temporary staff to hotels within Scotland. The table shows sample data, which lists the time spent by agency staff working at various hotels. The National Insurance Number (NIN) is unique for every member of staff.

NIN	ContractNo	hours	eName	hNo	hLoc
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NIN	ContractNo	eName
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ContractNo	hNo	hLoc
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NIN	ContractNo	hours
-----	------------	-------

hNo	hLoc
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NIN	eName
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ON	hNo
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- Question 03 -

Consider the relation $R = \{stno, stname, CourseNo, CourseName, datecomplete\}$