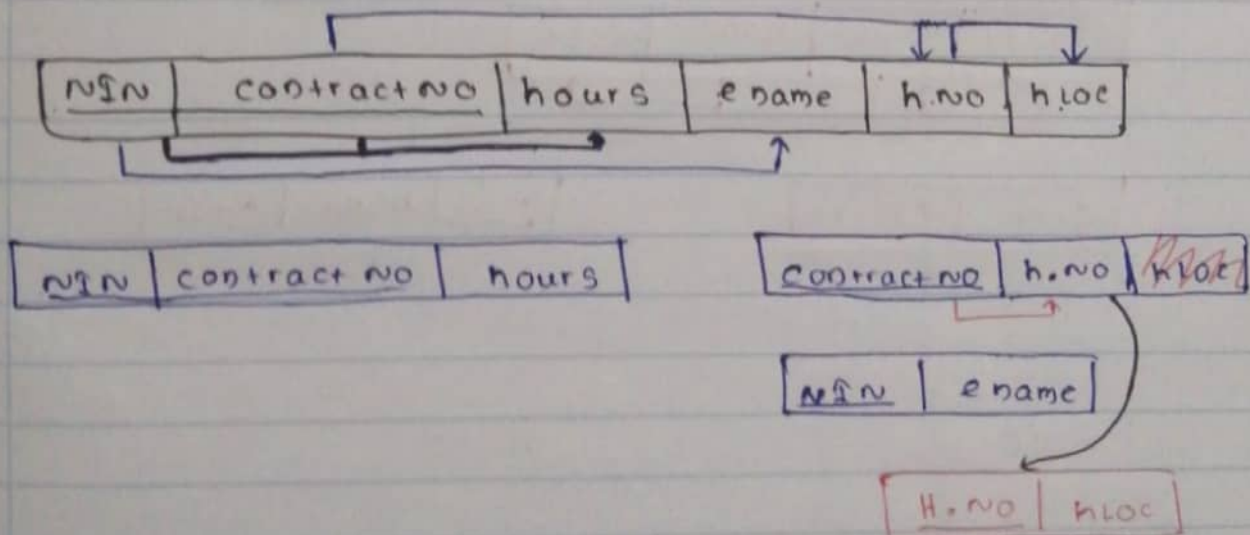


An agency called Fastant cover supplies part-time / temporary staff to hotels within Scotland. The table shows sample data, which lists the time spent by agency staff working at various hotels. The national insurance number (nin) is unique for every member of staff.

nin	contract no	hours	ename	h.no	h.loc
1135	C1024	16	Smith J	H25	East Kilbride
1087	C1024	24	Watson D	H55	"
1068	C1025	28	White T	H4	Glasgow
1135	C1025	16	Smith J	H4	"

- (i) Identify the functional dependencies represented by the attributes shown in the table. State any assumptions you make about the data and the attributes shown in this table.
- (ii) Describe and illustrate the process of normalizing the table to 3NF. Identify primary and foreign keys in your relations.



Question 01

Each number 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~~

Sta. N	C. N	manu	cost
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C. N	manu	cost
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Sta. N	C. N
--------	------

HasComputer

Sta. N	C. N	manu	cost
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C. N	Sta. N
------	--------

C. N	manu	cost
------	------	------