Computer C <u>CampulerNbr</u>, Manufacturer, Cost) Staff-Computer C <u>StaffNbr</u>, <u>ComputerNbr</u>)

## Question 02

An agency called istant 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 CNIN) is unique for every member of staff Partial Dependency

STATE OF THE PERSON	NIN	Contact No	hours	eName	hno	hLoc		
and distances	1135	C1024	16	SmithJ	H25	East Kilbride		
-	1057	C1024	24	Hocine D	H25	East kilbride		
1	1068	C1025	28	Whiter	1-14	Glasglow		
-	1135	C1025	15	smith T 1	Н4	Glasglow.		
	I full dependancy					7		

## Full dependancy

transitive dependancy

- D Identify the functional dependacies represented by the attributes shown in the table. State any assumption you make about the data and the attributes shown in this table.
- Describe and illustrate the process of normalizing the table to 3NF. Identify primary and forign keys in your relations.

INF h Loc hno ename contact No hours NIN 2NF emp table ename NIN hLOC nno hours contractno NIN contract 3NF ename emp table NIN hours. contract NO NIN contract hLoc nno hotel contract no hno contract - hotel

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Question or

Each member of staff in ABC company is allocted a single computer Information about computers belonging to staff members is planned to be stored in a database consisting of the following table.

Has Computer C staff Nbr, Computer Nbr, Manufacturer, Cost)

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

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

Because that nont to be an atolmic Cremove multivalued)

INF - To be atomic

2 NF - Partial and full dependency

3NF - Transitive dependancy

INF Staff No Computer Na Manufacturer Cost

2NF CompterNo | Manufacturer Cost

StaffNbr Computer Nbr

3Nf -> Same,