

1- The following tables are not a relation. What would you change in them to become a relation?

A)

<u>PatientID</u>	Surname	TestType
1002750	Doe	NBSR
1002846	Doe	NGENZ, NCSRY
1002030	Smith	BTWGS, NBSR, NCSRY
1002556	Smith	NGENZ, NBSR

B)

<u>Name</u>	<u>Surname</u>	<u>TestType</u>
Jane	Doe	NBSR
Jane	Doe	NBSR
John	Smith	NGENZ
Joe	Smith	NCSRY

C)

<u>ID</u>	<u>ID</u>	Frequency
1002750	NBSR	2
1002846	NCSRY	3
1002030	BTWGS	1
1002556	NBSR	2

D)

<u>ID</u>	Test	MoreRepeat
1002750	(NBSR, 2)	T
1002846	(NCSRY, 3)	F
1002030	(BTWGS,1)	F
1002556	(NBSR, 2)	F

2- Which attribute(s) you would choose as (a) primary key(s) for the following relations?

- A) AppleProduct (SerialNo, ProductVersion)
- B) Movie (Name, ProductionDate, Director, Category, CastsNo)
- C) Address( BuildingNo, StreetNo, City, Province)

3- What would you change to preserve the integrity of the following tables? What type of integrity constraint is lacking here?

A)

<u>PersonnelID</u>	Name	GraduationCGPA
1002750	John	A+
1002846	Jane	87
1002030	Liz	72
1002556	Sue	B

B)

<u>PersonnelID</u>	Name	Salary
1002750	John	80000
1002846	Jane	90000
	Liz	100000
1002556	Sue	110000

C) The following two tables should be considered together.

<u>StudentID</u>	Name	GPA
1002750	Jane Doe	3.4
1002846	John Doe	2.7
1002030	John Smith	3.1
1002556	Jane Smith	2.6

<u>CourseID</u>	<u>StudentID</u>	Mark
CSCC43	1002750	90
CSCC44	1002750	80
CSCC44	1002030	95
CSCC43	1003010	85