CSE 370- Database Systems

QUIZ 4 (Set B)

Summer 2024

Marks

Full Name (in Block Letter):			
ID:	Section:	Signature:	
Date:	_ Total Marks:	20	Time: 20 minutes
Consider the following relation:			
MOOC_Offered_Course (<u>providerID</u> , <u>courseCode</u> , <u>cohortNo</u> , <u>offeringNo</u> , providerName, type, establishmentYear, headquarter, enrollmentFee, domain, duration, courseTitle, instructorInitial, instructorName, instructorEmail, rating, totalStudent)			
The primary key is underlined. Rela (FDs):	tion has the follo	owing addition	nal functional dependencies
FD1: providerID → providerName, FD2: courseCode → domain, durati		nentYear, head	quarter, enrollmentFee
FD3: instructorInitial → instructorN	lame, instructorI	Email	
FD4: courseCode, cohortNo, offerin FD5: type, establishmentYear → en	_	orInitial, instr	uctorName, instructorEmail

- a. **Explain** if the above relation is in the first normal form (1NF) or not? If not, **apply** 1NF normalization. [2 Mark: 1 for identification + 1 for explanation]
- b. **Explain** if the relation(s) of no (a) is/are in the second normal form (2NF) or not? If not, **apply** 2NF normalization. [8 Marks : 2 for identification and explanation + 6 for decomposed relations]
- c. **Explain** if the relation(s) of no (b) is/are in the third normal form (3NF) or not? If not, **apply** 3NF normalization. [10 Marks : 2 for identification and explanation + 8 for decomposed relations]

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Solution:

https://drive.google.com/file/d/1RrfWcVZ59Tv1G9x2nCiyhwpATQ0tKr-8/view?usp=sharing

Ignore the arrows