

Course No: SWEN 3410
Course Title: DBMS
Date: 00/03/2017
No. of Questions: (3)
Time: 1 hour
Using Calculator (No)

University of Palestine



1st Midterm Exam
2nd semester 2016/2017
Total Grade: 30

Instructor Name: Dr. AlaaEddin
Almabhouh
Student No.: _____
Student Name: _____
College Name: Eng & IT
Dep. / Specialist: MIS & SWE
Using Dictionary (No)

Question One:

(10 Marks)

1) What does the abbreviation DBMS stand for? a) Data Borrowing and Movement Software b) Database Management Systems c) Database Manipulation Software d) Digital Base Mapping Systems
2) An association between entities is a(n) _____. a) entity type b) attribute c) record d) relationship
3) A one-to-many unary relationship allows an occurrence of one entity type to be associated with _____. a) a single occurrence of the same entity type b) multiple occurrences of the same entity type c) a single occurrence of another entity type d) multiple occurrences of another entity type
4) A degree is a(n) _____. a) number of attributes in a relation b) two dimensional table c) set of allowable values for one or more attributes d) number of tuples in a relation
5) In a university, the relationship between courses and students can best be described as a _____ relationship. a) one-to-one b) many-to-many c) one-to-many d) one-to-many unary
6) Which of the following is the unique identifier of an entity? a) Field b) Primary Key c) Candidate key d) Secondary key
7) Which of the following is TRUE ? a) Data redundancy is desirable but data integration is not. b) Data integration is desirable but data redundancy is not. c) Neither data integration nor data redundancy is desirable. d) None of the above.
8) A ternary relationship involves _____ entity type(s). a) one b) two c) three d) None of these
9) In Converting a many-to-many binary relationship into a relational database from an E-R diagram _____. a) can be done by placing the unique identifier of one of the tables into the other b) can be done by creating a single table that combines the attributes of the two entities c) requires the creation of an additional table between the two that represent the two entities in the relationship d) None of these

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10) What is the domain of the following attribute?

CourseID
MIS3011
MUL4210
TEC2120

- | | |
|---------------------------|---------------------------|
| a) size: 7; type: string | b) size: 7; type: numeric |
| c) size: 8; type: numeric | d) size: 8; type: string |

Question Two:

(12 Marks)

The table below shows an extract data from a **rental apartment's** database.

- 1 Illustrate the process of normalizing the data shown in this table from **first normal form (1NF)** to **third normal form (3NF)**.
- 2 Draw the Entity-Relationship Diagram (ERD) between the tables.

Client ID	Client Name	Apartment No	Apartment Address	Start Rental	End Rental	Rental Amt	Owner ID	Owner
CL87	Johan	PC05	6 Lorong Setia, KL	1-Jul-02	31-Ogos-04	450	CO40	Tina Murad
		PC13	5 Desa Nilam, KL	1-Sep-02	1-Sep-04	280	CO93	Tony Kasim
CL69	Adam	PC05	6, Lorong Setia, KL	1-Sep-02	10-Jun-04	450	CO40	Tina Murad
		PC45	2, Jalan Matahari, KL	10-Okt-02	1-Dic-05	375	CO93	Tony Kasim
		PC13	5 Desa Nilam, KL	1-Jan-02	10-Ogos-02	280	CO93	Tony Kasim

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Question Three

(8 Marks)

1) Describe the advantages of database management systems.

2) Describe the concept and practical use of data modeling.

End of Questions
Good Luck