Mansoura University

Faculty of Computers & Information

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Final Exam 2019/2020

Course: Database Systems

Grade: Second Year

Exam Date: June 3, 2020

Model: 1

Starting Time: 10:00 AM

No. of pages: 2 pages.

Please answer the following 4 questions briefly. The answer to each question must not exceed 1 page.

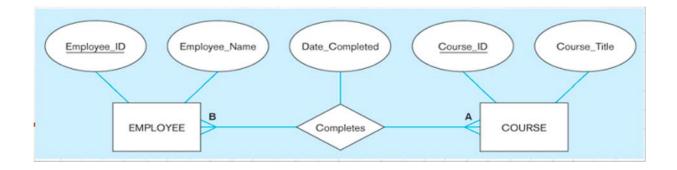
Question # 1

- a) Define each of the following:
 - Relational Database
 - System Catalogue
- b) What is the difference between Data and Meta Data

Question #2

- a) in the Database relation, define each of the following:
 - The Cardinality
 - The degree
 - The Domain
- b) What are the main functions of the DBMS

Question # 3: See the following ERD and answer the following questions:

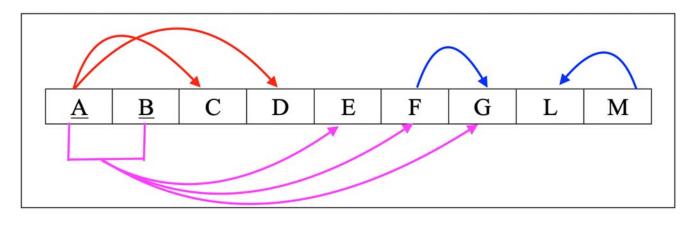


- a) How many tables will be created from this ERD?
- b) Draw all tables please (just empty tables without data)
- c) What is the cardinality of the COMPLETES relationship
- d) What is the Degree of the COMPLETES relationship

Page 1 of 2 Model1

Question #4:

From the following Figure, what is the result of applying First Normal Form (1NF)?



A,B → E A,B→ F A,B → G A→ C A→ D F→ G M→L

Good Luck

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