CMPE 351 Database Management System Midterm Examination

04 November 2019 17:00

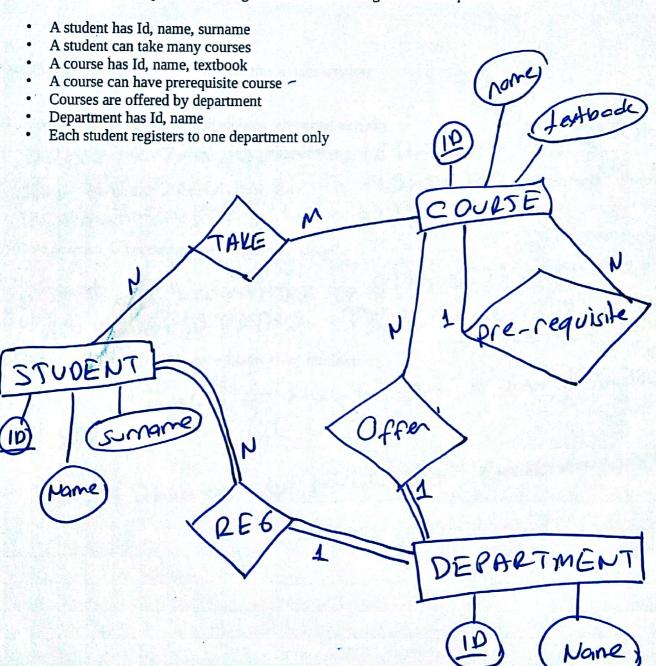
Duration 75 Mins

Name:

ID:

Signature:

Question 1) Draw Entity Relation Diagram for the following software requirements



Question 2) Match Informal Terms on the left with formal terms on the right	
1. Table C 2. Column Header E 3. All possible Column Values D 4. Row B 5. Table Definition F 6. Populated Table A	A) State of the Relation 6 B) Tuple 4 C) Relation 1 D) Domain 3 E) Attribute 2 F) Schema of a Relation 5
Question 3) Use Company DB to solve the problems below a) Give an example operation that violates referential integrity Delete 2 John, B, Smith, 123456769,	
Other tables referring to FK 123456769 connot access information resording 123456769 b) Give an example operation that violates key integrity insert L Accounting, 5, 333444575, 1999-9-01) into DEPARTMENT TABLES where "5" is strongly into DEPARTMENT TABLES where "5" is strongly two deet.	
set SSN-No to	T TABLES where so two deet. ty integrity NULL for 2John, B, Smith NULL for Research Deet
•	

Question 4)

A) Write a relational algebra to retrieve the fname and the dependent name (if applicable, otherwise Null *) of employees who work on the projects located in Houston.

(* If there is no any dependent of an employee, we keep his/her information but dependent name

column will be set to NULL)

B) What would be the output of the query in 4.A (Above)

Theodore fraklin さって fraklin Abner Romesh James NULL