

NORTH SOUTH UNIVERSITY CSE 311 Database Management Systems

Department of ECE

Student ID:	Name:	_ Section:	
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Instructions:

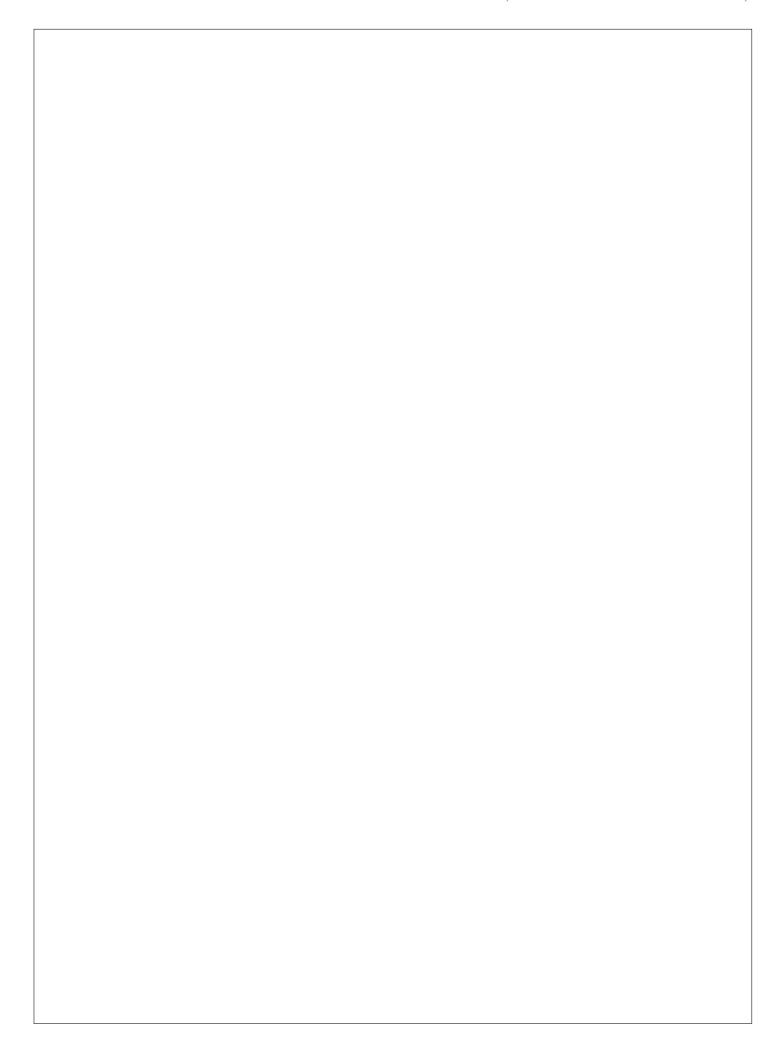
Answer:

- Answer all questions. 75 minutes for answering questions and 15 minutes for scanning and uploading.
- 1. Answer the questions considering the following scenario -

"Best-East University is currently in need of a software system for course registration. The university has more than one department and each department has many courses of a particular program such as the Bachelor and Masters program. A student may register (enroll) all or subset of offered courses for a trimester (e.g. Spring, Summer, Fall). During the registration period, a student's registration is authorized (signed) by the batch advisor. A batch advisor is a faculty member assigned to the batch. Once the registration date is over, a student may late register courses with a late registration fee. In the case of late registration, a student requires the signature of both the batch advisor as well as the department chairman's authorization."

- (a) Identify **entities** and essential **attributes** of entities.
- (b) **Populate** realistic test data into table/s.
- (c) Normalize the database upto 3rd Normal Form.

(Note: You are allowed to have necessary assumptions.)



[5]

Answer:		

2. (a) Discuss the $\underline{\mathbf{issues}}$ of Relational Database Scaling.

[5]

Answer:		

(b) Briefly, discuss different ${f types}$ of NoSQL databases.

[10]

Answer:		

3. Compare $\underline{\text{Data Administrator}}$ and $\underline{\text{Database Administrator}}$ functions.