

COMPUTER SCIENCE
MILITARY COLLEGE OF SIGNALS, NUST
DATABASE SYSTEMS
BESE-15B

<u>Exam:</u>	(Quiz 2)	<u>Instructor:</u>	Dr. Sanam Shahla Rizvi
<u>Type of Paper:</u>	(Regular)	<u>Total Marks:</u>	5
<u>Semester:</u>	(Fall)	<u>Time Allowed:</u>	10 minutes

Note:

1. Attempt all questions.
 2. All questions carry equal marks.
 3. Please attach the question paper with your answer sheet.
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Question No.1**(5)**

Move the following Department Complaints System table from un-normalized to 3NF.

Assume that the Dept. # and Cust. # are all needed to uniquely identify the date and nature of the complaint about the department.

Dept #	Dept Name	Location	Mgr Name	Mgr ID No.	Tel Ext.	Cust #	Cust Name	Date of Complaint	Nature of Complaint
11232	Cardiology Division	Islamabad	Sohail Akbar	S11	7711	P10451	Ali Jawad	1/12/2001	Poor Service
						P10480	Majid Ahmed	1/14/2001	Discourteous Attendant

Good Luck!

Solution:**0NF:**

Dept #	Dept Name	Location	Mgr Name	Mgr ID No.	Tel Ext.	Cust #	Cust Name	Date of Complaint	Nature of Complaint
11232	Cardiology Division	Islamabad	Sohail Akbar	S11	7711	P10451	Ali Jawad	1/12/2001	Poor Service
						P10480	Majid Ahmed	1/14/2001	Discourteous Attendant

1NF:

<u>Dept #</u>	<u>Cust #</u>	Cust Name	Date of Complaint	Nature of Complaint	Dept Name	Location	Mgr Name	Mgr ID No.	Tel Extn.
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2NF:

<u>Dept #</u>	<u>Cust #</u>	Date of Complaint	Nature of Complaint
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<u>Dept #</u>	Dept Name	Location	Mgr Name	Mgr ID No.	Tel Extn.
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<u>Cust #</u>	Cust Name
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3NF:

<u>Dept #</u>	<u>Cust #</u>	Date of Complaint	Nature of Complaint
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<u>Dept #</u>	Dept Name	Location	Mgr ID No.	Tel Extn.
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<u>Cust #</u>	Cust Name
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<u>Mgr ID No.</u>	Mgr Name
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