

1NF

problem 9

<u>student_id</u>	<u>student_Name</u>	<u>email</u>	<u>Course</u>	<u>inst_Name</u>	<u>Department</u>	<u>Dept_build</u>
1001	Alice Brown	alice@uni.edu	CS101	Dr.smith	Computer Science	tech hall
1001	Alice Brown	alice@uni.edu	CS102	Dr.Lee	Computer Science	tech hall
1002	Bob Chen	bob@uni.edu	Maths201	Dr.johnsom	Mathematics	science center
1003	Carol Davis	carol@uni.edu	CS101	Dr.smith	Computer Science	tech hall
1003	Carol Davis	carol@uni.edu	Maths201	Dr.johnsom	Mathematics	science center

2NF

<u>student_id</u>	<u>student_Name</u>	<u>email</u>
1001	Alice Brown	alice@uni.edu
1002	Bob Chen	bob@uni.edu
1003	Carol Davis	carol@uni.edu

<u>course</u>	<u>inst_Name</u>	<u>Department</u>	<u>Dept_build</u>
CS101	Dr.smith	Computer Science	tech hall
Cs102	Dr. Lee	Computer Science	tech hall
Maths202	Dr.johnsom	Mathematics	science center

<u>student_id</u>	<u>Course</u>
1001	CS101
1001	CS102
1002	Maths201
1003	CS101
1003	Maths201

3NF

<u>student_id</u>	<u>student_Name</u>	<u>email</u>
1001	Alice Brown	alice@uni.edu
1002	Bob Chen	bob@uni.edu
1003	Carol Davis	carol@uni.edu

<u>student_id</u>	<u>Course</u>
1001	CS101
1001	CS102
1002	Maths201
1003	CS101
1003	Maths201

<u>inst_Name</u>	<u>Department</u>
Dr.smith	Computer Science
Dr. Lee	Computer Science
Dr.johnsom	Mathematics

<u>Department</u>	<u>Dept_build</u>
Computer Science	tech hall
Mathematics	science center