

Lab sheet - 10

1. First Normal form (1NF)

split multiple subjects into separate rows.

student_id	student_name	subject
1.	Rohan Kumar	math
1.	Rohan Kumar	Science
2.	Priya Sharma	english
2.	Priya Sharma	History
3.	Amit Verma	math
3.	Amit Verma	english.

2. Second Normal form (2NF)
conversion to 2NF

Table 1: students

student_id	student_name
1.	Rohan Kumar
2.	Priya Sharma
3.	Amit Verma

Table 2 : Student marks

student-id	Subject	marks
1	math	85
1	Science	90
2	english	80
2	History	88
3	math	92
3	english	84

3. Third Normal form (3NF)

emp-id (PK)	emp-name	dept-id (FK)
101	Raj	001
102	Neha	002
103	Ayjon	002

Department

dept_id (PK)	dept_name	dept_location
D01	HR	Delhi
D02	IT	Mumbai

4. Boyce - Codd Normal Form (BCNF) -
counselor - tutor

course (BCNF)

course_id (PK)	room
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C101	R1
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C102	R2
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Sur
(coursed)

counselor - tutor (relationships)

course_id (FK)	instructor
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C101	A. Kumar
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C101	B. Sharma
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C102	B. Sharma
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