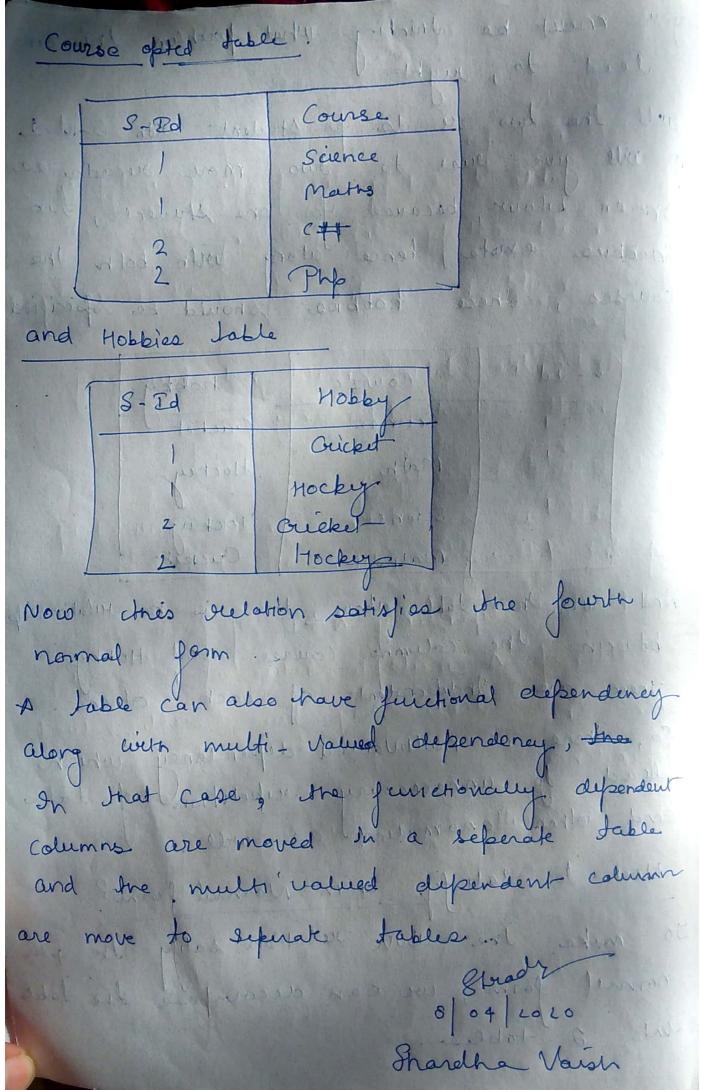
Computer Science (2nd year) 8-04-2020 Subject - DBMS Jos a table to satisfy the Jourth Mormal James, it should satisfy the following two condition 1) It snould be in the Boyce-rodd Normal John. 2) And the table should not have any multi valued Dependency. Multivalued Dependency A table is said to have multi- Valued Popendeng if the following condition are town. 1) For a dependency A >B, uf for a single value of A., multiple Value of B exists dependency: Have may have multi-Valued

2) Also, a table should, at - cleast 3 columns for
2) Also, a table should, at - cleandency,
a multi value
A and b, then
Independent of each other. If all these condition are town par any haute what was said to have multi valued dependency.
sulation (table), it is said to have
multi Valued dependency 1.
Example Below we have a college envolement table and hobby.
Below we have a College and hobby
Below we have a course and hobby.
S-Id course hobby
Science IIII Gulchet
matha 18 Hockey
2 CAF Gricket
2 Php Hockey
in the table above,
As you can see It has opted for two
make and the
and Hackens
two hobbies Gicket and Hockey

you must be trinking what problem this can lead to , right. well the two records for student with Stid 1 Will give vise to two more records as shown below, because for one student, two hobbies exister, hence along with both the Courses, these hobbies should be specified 5- Ed Course hobby Seience Cricket 1 Math Hockey 1 Science 10ckups Mains Cricket 1 And, un the table above, there is no vulationship between the columns course and Hobby. There are Independent of each others. So, there is multivalued dependency which lead to unnecessary repetition of data and other anomalies as well ... Moce do Satisfy 4th Namial Jain? To make the above relation satisfy the 4th normal form, we can decompose the table Into 2 tables.



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