

Do 3NF normalization.

- 1) Property-id
- 2) (County-name, lot-no)

FD1: Property-id defines all the others

FD2: Combination of County-name and lot-no defines the others.

FD3: Tax-rate is same for a specific county. Does not vary by lot.

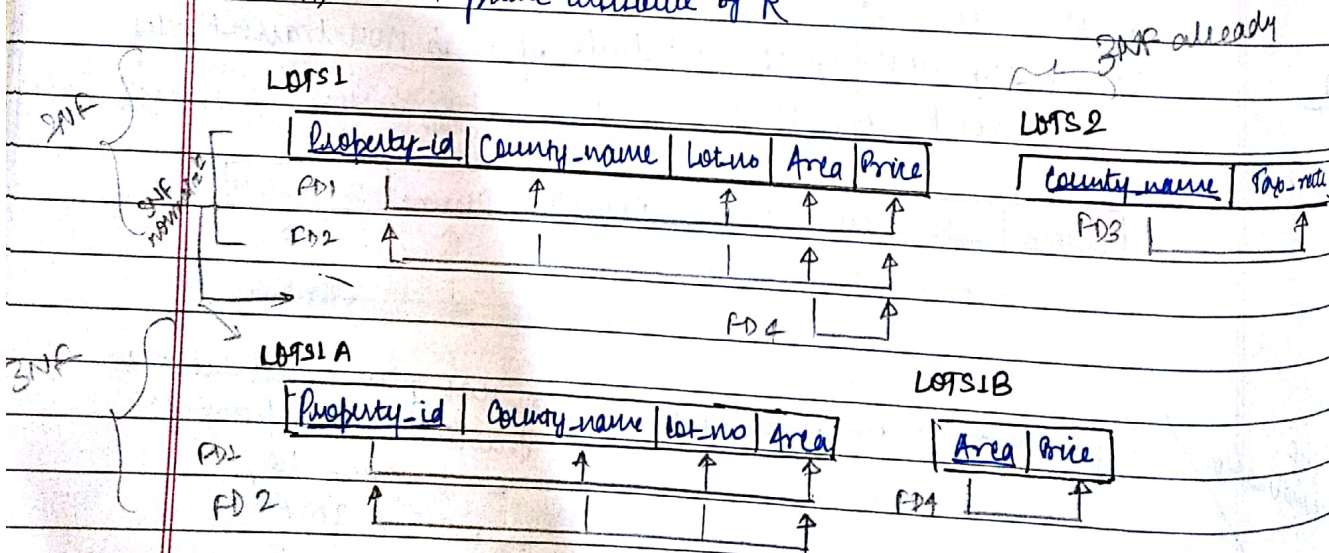
3NF

$X \rightarrow A$

i) X is a superkey of R

or

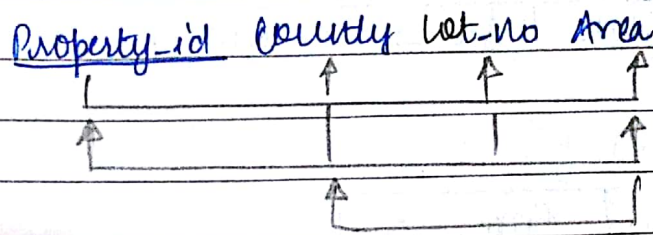
ii) A is a prime attribute of R



Boyce-Codd normal form (BCNF)

A relation schema R is said to be in BCNF if there exists a non-trivial functional dependency as $X \rightarrow A$ then X must be a the superkey of R.

If a relational schema is in BCNF, then it is also in 3NF but the reverse is not always true.



Area is not a primary key or candidate key. However it determines county-name. Violates BCNF.