01)

BCNF is the development rendition of 3NF. It is stricter than 3NF. A table is in BCNF if each useful reliance X → Y, X is the excessively key of the table. For BCNF, the table ought to be in 3NF, and for each FD, LHS is very key.

02)

Fourth ordinary structure (4NF) is a degree of information base standardization where there are no non-insignificant multivalued conditions other than an up-and-comer key. It expands on the initial three typical structures (1NF, 2NF and 3NF) and the Boyce-Codd Normal Form (BCNF). It expresses that, notwithstanding an information base gathering the prerequisites of BCNF, it must not contain more than one multivalued reliance.

Model – Consider the information base table of a class whaich has two relations R1 contains understudy ID(SID) and understudy name (SNAME) and R2 contains course id(CID) and course name (CNAME).