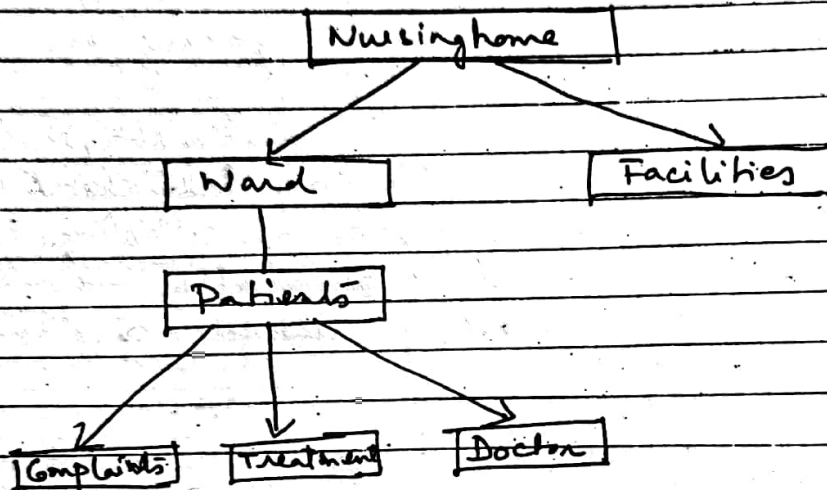


Join Dependency - It is a constraint and is satisfied if and only if the relation concerned is the join of certain no. of projections.



The above structure represents the fact the information regarding wards & patients currently admitted to a ward depend only on Nursinghome but not on the facilities present in the nursing home and vice versa. Since a nursing home can have multiple wards as well as multiple facilities so in this can multivalued dependencies.

Nursinghome  $\twoheadrightarrow$  Ward and Nursinghome  $\twoheadrightarrow$  Facilities hold.

Nursinghome database when decomposed will have full representation:

Nursinghome : WARD | Facilities

Nursinghome, WARD : Patient

Nursinghome, WARD, Patient : Complaints | Treatment | Doctor

Thus, we can store Nursinghome database as a collection of

1) Nurse-facility (Nursinghome, facility)

2) Nurse-ward (Nursinghome, Ward, Patient, Complaints, Doctors, Treatment)