→ POSET (Partially Order Set):

Partial Ordering Relations / composite relations:

→ A relation 'R' is said to be as partial order relations if 'R' is reflexive, antisymmetric & trasitive.

POSET:

→ POSET :- A set 'A' with partial ordering relation 'R' defined on 'A' is called POSET. Denoted by [A; R].

e.g:

$A = \{1, 2, 3\}$.

$R_1 = \{(1,1), (2,2), (3,3)\}$ R✓ A.S✓ T✓

POSET ← $R_2 = \{(1,1), (2,2), (3,3), (1,2), (2,3), (1,3)\}$

R✓ A.S✓ T✓