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Assignment-1

1) For Reflexive:- In social media connections everyone is friend of itself, so Everyone is friends with themselves, we can say like that Every subset is a subset of itself.

For Symmetric:- Let Rohan is a friend of Sohan, then obviously we can say that Sohan is friend of Rohan. So, it is a symmetric relation.

For Transitive:- Let x is a friend of Y and Y is a friend of Z, then x maybe or maybe not a friend of Z. We can't sure whether it is transitive or not.

Solution 2:- The function is both injective and surjective.

for injective:- if each student is enrolled in only one course.

for surjective:- if each course has at least one student enrolled in it.

Solution 3:- Let be the three bus stop is
i> Agra. ii> Mathura iii> Delhi

For ~~Reflexive~~ Symmetric :- If you reach stop Agra to Mathura then, you will also reach Mathura to Agra. So, it is a Symmetric relation.

For Reflexive :- Every stop/location is accessible from itself.

For Transitive :- If you can reach Agra to Mathura and Mathura to Delhi, then you can also reach Agra to Delhi.

Solution-4:- We consider a two user/programmer 'A' and 'B'
The two user 'A' and 'B' are equivalent only and only if they share at last one common interest.

Solution 5:- i> Function is a way that show a relation b/w tables which are created in the database.
ii> Function is used to fetch/optimize a query/ details by joining efficiently.

Solution 6:- Relation :- Represents whith device can communicate directly.
for example ABCD is a square and A is directly communicate with C and B with D for a Diagonal.

modeling using graph theory :- we can understand
with edges of squares represent the connection
and devices is represented by vertices.