Normalization

1. Given a relation R(P, Q, R, S, T) and Functional Dependency set FD = { QR → PST, S → Q },?

Questions:

1. Find out the candidate keys?
2. Find our prime attributes and non-prime attributes?
3. Whether this table is in 2NF?
4. Find QS^+ .

2. From the following table: R(ABCDEFG)
Functional dependency: {AB->C, B->D, D->E, A->F, F->G}

Q1. Find out the candidate key?
Q2. Find out the prime and non-prime attribute?
Q3. Whether this table is in 2NF?
Q4. Find AF+

3. From the following table and its functional dependency:
R(ABCD) Functional dependency: {A->C, B->D}
Q1. Find out the candidate key?
Q2. Find out the prime and non-prime attribute?
Q3. Whether this table is in 2NF?
Q4. Find A+?

4. From the following table: R(ABCDEF)
Functional dependency: {A->BC, D->E,E->F}

Q1. Find out the candidate key?
Q2. Find out the prime and non-prime attribute?
Q3. Whether this table is in 2NF?
Q4. Find AF+

5. From the following table: R(ABCDE)
Functional dependency: {A->BC, CD->E, B->D,E->A}

Q1. Find out the candidate key?
Q2. Find out the prime and non-prime attribute?
Q3. Whether this table is in 2NF?
Q4. Find ACD^+ ?