Tutorial Sheet (NORMALIZATION)

1. 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. Find out the highest normal form?
   Q4. Decompose the given table into BCNF?

2. From the following table and it 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. Find out the highest normal form?
   Q4. Decompose the given table into BCNF?

3. 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. Find out the highest normal form?

Q4. Decompose the given table into BCNF?

4. 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. Find out the highest normal form?
Q4. Decompose the given table into BCNF?