LET'S START WITH DBMS:)

Normalisation and its types

5NF(Fifth Normal Form) or Project-Join Normal Form (PJNF)

A relation is in 5NF if it satisfies the following conditions:

- 1.It is in 4NF
- 2. The decomposition should be lossless.

Lossless decomposition: It ensures that when a relation R is decomposed/breaked into two or more relations, no data is lost, and the original relation R can be again reconstructed by joining these decomposed relations.

LET'S START WITH DBMS:)

Normalisation and its types

5NF(Fifth Normal Form)

There is a relation R(A,B,C) with CK as A

Α	В	C
1	2	3
4	5	6

R

Step 1: Lets decompose the relation based on the CK or SK of the given R Decomposed relations: R1(A,B) and R2(A,C)

Α	В
1	2
4	5

Α	С
1	3
4	6

R1 R2

LET'S START WITH DBMS:)

Normalisation and its types

5NF(Fifth Normal Form)

There is a relation R(A,B,C) with CK as A

 A
 B
 C

 1
 2
 3

 4
 5
 6

R

Step 2: Lets perform a natural join between R1 and R2 When we do R1 natural join R2 we get the original relation back(lossless)

A	В	С
1	2	3
4	5	6

R1 natural join R2