2ⁿᵈ NF   Second Normal form

→ table or relation must be in 1st Normal form

→ ✓ * All the non-prime attributes should be fully functional dependent on Candidate Key.

Customer

Customer ID	Store ID	Location
1	1	Delhi
1	3	Mumbai
2	1	Delhi
3	2	Banglore
4	3	Mumbai

Candidate Key: Customer ID Store ID

Prime Attributes: Custm ID
                  Store ID

Non Prime: Location

2ⁿᵈ NF

Store ID	Location
1	Delhi
2	Banglore
3	Mumbai

Customer ID	Store ID
1	1
1	3
2	1
3	2
4	3

2ⁿᵈ NF.

nd NF

Second Normal form

→ tab [relation]

in [normal fo]

✓
* All [Prime]

b [Functional]

X 2nd NF : Partial Depending $\{$. L.H.S Should be Proper Subset of CK and R.H.S Should be a Non Prime Attribute $\}$

$R(ABCDEF)$

FD $\{ C \rightarrow F, \underbrace{E \rightarrow A}_{P.D.}$ and T, $EC \rightarrow D, \quad PD : A \rightarrow B \}$

CK : EC = FADB

✓
$EC^+ = \underline{(ECFADB)}$

1. $CK = \{ \underline{EC} \}$
2. Prime A[ttri]b[utes] : $\{ E, C \}$
3. N[on prime] Attribute : $\{$