

Normalization {
 ↳ no inconsistent data
 ↳ no duplicate data
 ↳ no arbitrary data
 ↳ Make sure all the tables should be normalized at least till 3NF
 ↳ Normal forms

- 1st NF
- 2nd NF
- 3rd NF
- 4th NF
- 5th NF

1st NF

- ↳ not have groups
- ↳ Atomic values

ID	MN	genre	DN	DA
1	Angur	Action	-	-
2	Banhu	Sci-fi	-	-
3	Snach	Fantasy	-	-

normalized, multiple in columns

ID	Name	g ID	DN	DA
1	Angur	2	-	-
1	Angur	2	-	-
1	Banhu	3	-	-

Split

g ID	genre
1	Fantasy
2	Action
3	Sci-fi

Student

ID	class ID	Name
1	I	Ashika
2	II	Ashika
3	III	Ashika

class

ID	className
1	class I
2	class II

2nd NF
 ↳ should 1st NF
 ↳ non-key attributes depend on primary key.

Movie ID	genre ID	ID
101	1001	1
102	1002	2
101	1002	3
101	1002	4

3rd NF

- ↳ should be in 2nd NF
- ↳ all non-primary attributes should depend on primary, no indirect relation with primary should be present

ID	Name	ID
1	Angur	2
2	Banhu	3
3	Snach	4

Director

ID	DN	DA
1	-	-
2	-	-
3	-	-
4	-	-