

LET'S START WITH DBMS :).

Normalisation and its types

4NF(Fourth Normal Form)

A relation is in 4NF if it satisfies the following conditions:

- 1.It is in BCNF
- 2.It has no multi-valued dependencies

Multivalued dependency :

A multi-valued dependency $X \twoheadrightarrow Y$ $X \twoheadrightarrow Z$ in a relation $R(X,Y,Z)$ implies that for each value of X , there is a set of values for Y and a set of values for Z that are independent of each other.

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Normalisation and its types

FourthNormal Form (4NF)

Student (StudentID, Course, PhoneNbr)

- StudentID \rightarrow \rightarrow Course (A student can take multiple courses)
- StudentID \rightarrow \rightarrow PhoneNbr (A student can have multiple hobbies)

StudentId	Course	PhoneNbr
1	Math	123
1	Sci	123
1	Math	345
1	Sci	345
2	Hin	678
2	Eng	678
2	Hin	910
2	Eng	910

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StudentId	Course	PhoneNbr
1	Math	123
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2	Hin	910
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4NF

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