Home DBMS SQL PL/SQL SQLite MongoDB Cassandra MySQL Oracle CouchDB Neo4j DB2 C Java Projects

C Programming

Output based questions on Structures

☆ SCROLL TO TOP

12/8/22, 9:26 PM DBMS 2NF - javatpoint

Second Normal Form (2NF)

- In the 2NF, relational must be in 1NF.
- o In the second normal form, all non-key attributes are fully functional dependent on the primary key

Example: Let's assume, a school can store the data of teachers and the subjects they teach. In a school, a teacher can teach more than one subject.

TEACHER table

| TEACHER_ID | SUBJECT | TEACHER_AGE |
|------------|-----------|-------------|
| 25 | Chemistry | 30 |
| 25 | Biology | 30 |
| 47 | English | 35 |
| 83 | Math | 38 |
| 83 | Computer | 38 |

In the given table, non-prime attribute TEACHER_AGE is dependent on TEACHER_ID which is a proper subset of a candidate key. That's why it violates the rule for 2NF.

To convert the given table into 2NF, we decompose it into two tables:

12/8/22, 9:26 PM DBMS 2NF - javatpoint

TEACHER_DETAIL table:

| TEACHER_ID | TEACHER_AGE |
|------------|-------------|
| 25 | 30 |
| 47 | 35 |
| 83 | 38 |

TEACHER_SUBJECT table:

| TEACHER_ID | SUBJECT |
|------------|-----------|
| 25 | Chemistry |

| 25 | Biology |
|----|----------|
| 47 | English |
| 83 | Math |
| 83 | Computer |



For Videos Join Our Youtube Channel: Join Now

Feedback

• Send your Feedback to feedback@javatpoint.com

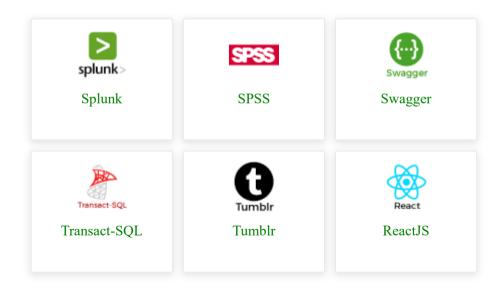
Help Others, Please Share





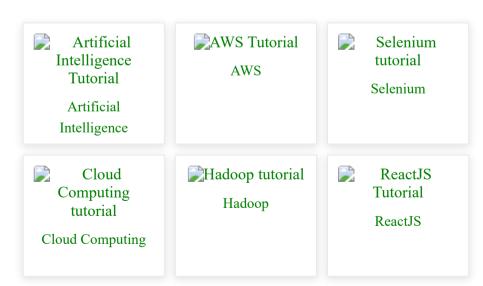


Learn Latest Tutorials





Trending Technologies





B.Tech / MCA



DBMS



Data Structures



Operating System tutorial

Operating System

Computer
Network tutorial

Computer Network

Compiler
Design tutorial

Compiler Design

Computer
Organization and
Architecture

Computer Organization

Discrete
Mathematics
Tutorial

Discrete Mathematics Ethical Hacking
Tutorial

Ethical Hacking

Computer
Graphics Tutorial

Computer Graphics

Software Engineering Tutorial

Software Engineering html tutorial

Web Technology

Cyber Security tutorial

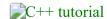
Cyber Security

Automata
Tutorial

Automata

C Language tutorial

C Programming



Java tutorial

