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# 1nf 2nf 3nf with example

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Database normalization: Explain 1NF, 2NF, 3NF, BCNF With examples + PDF: The purpose of normalization is to make life easier for users and also to save space on computers during storage of huge amounts of data. The added benefit of getting an organized data package that helps in an increase in performance is also a very remarkable use of normalization. This discussion concerns the standardisation of the database: Explain 1NF, 2NF, 3NF, BCNF with examples. At the end of this article, you will be given a free pdf copy of all these normalization modules. Normalization can be mainly classified in four types: 1) 1a Normal Form, 2) Second Normal Form, 3) Third Normal Form, 4) Fourth normal form, 5) 5th Normal Form, and 6) Boyce-Codd Normal Form. Database normalization: Explain 1NF, 2NF, 3NF, BCNF With Examples + PDF The discussion here includes 1a, 2a, 3a and 4a Normal Forms. It is a property of a relationship in a relational database where only when the domain of each attribute has only atomic values (values that cannot be further subdivided or simplified) and the value of each attribute has only one value from the selected domain. Edgar Codd, an English computer scientist, said that a relationship is in its first normal form when none of its domains have any set as elements. This form is a very important relationship in the GDBMS. Applies different criteria including: 1) Elimination of recurring groups in individual tables, 2) Creation of separate tables for each related data set and 3) Identify related data using the primary key of a set of data. Example: Consider a table containing the details of a company. The fields to be included are: employee name, employee ID number, employee seat and employee contact number. For a better understanding, this will be displayed in the form table. Table 1.1 In the previous table, we can see the details of the employees of a given company. All lines have values as shown, but we can see that the values in the first two lines under the column A «Contact of the Employee " notâ €» have they have values. Ajay and Amit employees have more contact numbers that cannot be accepted in the first normal module. Ambiguity brings in the database and can generate anomalies. Hence the need to maintain the unique of the field. To take it to the first normal form, one of the values from the contact field of the employee should not be removed (from both Ajay and Amitâ € Å data). So the first correct normal form will get it after the change in this way. The correct table will be: Table 1.2 The correct table meets the first criteria of the normal form, ie Å «Each attribute of a table must have atomic values. The additional contact numbers have been removed to obtain the design of the requested module. What is atomicity at the database? A first normal form definition refers to the concept of Å «Atomicity. â €» It establishes that the domain should have values in the report that cannot be divided into smaller data content compared to DBMS. Codd defines an atomic value as a value that cannot be broken down into smaller pieces. An entity is considered in the second normal form when it is already in 1NF and all the attributes contained in it depend exclusively on the unique identifier of the entity. In other words, it maintains two important criteria to be met in order to provide a normalized data with the second normal module. 1) It is in the first normal form 2) All non-key attributes are completely functional and depend on the primary key. To give more clarity to the aforementioned statements, we consider a table and two attributes within the table, A and B. Suppose that the attribute B depends functionally from A, but not from an appropriate subset of A. Then B It can be considered completely functional and dependent on A. Therefore, in a 2NF table, all non-key attributes cannot depend on the subset of the primary key. A table that is in the normal shape and contains only one key as the primary key is automatically in the second normal shape. normal. Consider a toy store that has three branches in three different locations. A table is prepared showing customer IDs, store IDs and store location. Table 2.1 The table above is composite and has a composite primary key (ID CUSTOMER, ID STORE). The non-key attribute in this layout is STORE LOCATION. In this case, the location of the STORE depends exclusively on the STORE ID, which is the only part of the primary key. So the table doesn't fit the second normal shape. TABLE 2.2 Table 2.3 To solve this problem and to convert the entity to 2NF, the table is divided into two separate tables. Dividing the table removes the partial functional dependency and gives the atomicity for both tables (this makes 1NF in the process). Now the STORE LOCATION column is completely dependent on the primary key, so the STORE ID reaches 2NF for the table under consideration. An entity is considered to be in the third normal form when: 1) meets the criteria to be in the second normal form. 2) There is no transitive functional dependence. (The transient functional dependence can best be explained by the relationship between three tables. If table A depends functionally on B, and B depends functionally on C, then C depends transitively on A and B). You can also say that the transitive functional dependence of the non-prime attribute on any super key is removed. (A super key is a system of combined columns that is used to uniquely identify a row within any RDBMS. A superkey is reduced to the minimum number of columns needed to uniquely identify each row.) 3NF states that any column reference in the referenced data that does not depend on the primary key must be removed or that only the external key columns must be used to refer to another table, and that in the referenced table there must be other columns in the parental table. Example: Consider a table showing the database of a library. The table is composed of details on Book ID, ID, ID, kind of kind and price. The database is maintained to track all available books or that will be available in the library. The data table is shown below. Table 3.1 The data in the table give us an idea of the books offered in the store. Furthermore, we can deduce that Book ID determines the gene ID and genre ID determines the book gene ID. It can therefore be observed that a functional transitive dependence has been developed which makes the table that the table does not satisfy the third normal form. Table book table\_genre After subdivided the tables and grouped the redundant contents, two tables are obtained in which all non-key attributes are fully functional and depend only on the primary key. To further explain the advanced phase of the normalization process, it is necessary to understand the normal Boyce-Codd form and its comparison with the third normal form. Normal form of Boyce-Codd and relationship with the 3NF Boyce-Codd Normal Form or BCNF or 3.5 NF is a normal shape slightly stronger than the 3NF. It was developed in 1974 to address some types of anomalies untreated by the 3NF. A relational diagram, once prepared in BCNF, eliminating each type of functional dependence (although other forms of redundancy can prevail). As regards the relationship between BCNF and 3NF, in some rare cases, the 3NF table does not meet the requirements of the BCNF. A 3NF table without any more overlapping candidate keys is guaranteed by the presence of a BCNF and, depending on the functional dependencies of the entity, a 3NF table with two or more overlapping candidate keys PÅÅZ / can not be able to be in the BCNF. Here is an example of a 3NF table that does not meet the requests of the BCNF: the table shows the details of the booking program for a pool complex with the pool fields no, timetable, end time and type of income. The details are compiled in the rows and columns of the table below: in Previous there are no non-prime attributes that that all attributes belong to a candidate key. This justifies the table being composed of 2NF and 3NF. However, the table does not follow BCNF because of the dependency on the type of membership in which the determining attribute, the type of membership on which the pool number depends: is neither a candidate key nor a superset of a candidate key. The draft must be amended to comply with the NFC. The importance of explaining the BCNF comes when you have to explain the normalization phase. The "Fourth Normal Module" or 4NF 4. FOURTH NORMAL MODULE A normal module that is used in the normalization of the database. The 4NF came in a significant time period as the next level of normalization. It was introduced by Ronald Fagin in 1977, after the Boyce-Codd Normal Form. 4NF is basically about a more general type of dependency known as multivalued dependency and is different from the 2NF, 3NF and BCNF and their functional dependencies. A table can be considered in 4NF only if for each of the non-trivial multivaluate dependencies, X->Y, when X is a superkey. (This means that X is a candidate key or apex). Example: Consider the table below: Here COURSE ID and INSTRUCTOR are multivalued dependent attributes. They can be converted to 4NF by separating the single table into two tables which are as shown below COURSE-INST COURSE-TEXT USE OF 4NF At higher levels of normalization, the teaching and use of database normalization slows down substantially mainly because most of the tables they are in direct violation of 4NF. A table that meets 4NF is hard to find by most business applications. A study shows that, to date, more than 20% of business processes contain tables that violate 4NF, but successfully meet all lower forms of standardization. BEYOND 4NF AT 4NF, the performance is and an additional 5NF procedure may not be feasible as it causes a high probability of error and very few tables practically meet the criteria of The 5NF is also called the normal form of project-join and is the highest level of normalization designed to reduce redundancy in relational databases that is done by recording multi-evaluated facts isolating semantically related multiple relationships. As we have said that we will provide you with a free pdf file of Database Normalization and all its forms 1NF, 2NF, 3NF, BCNF With examples, then link to download this pdf file is given below. Database normalization 1NF, 2NF, 3NF, 4NF File PDF So it was all about database normalization: Explain 1NF, 2NF, 3NF, BCNF with examples. If you have any doubts then please comment below. Normalization: Explain 1NF, 2NF, 3NF, BCNF With e mpi //whatisdbms.com/wp-content/uploads/2016.6/03/Database-Pictures-150x150.jpg2017-03-10T05:01:58+00:00Sumit ThakurData Ware HouseNormalizzazioneDatabase: Spiegare 1NF, 2NF, 3NF, BCNF With + PDF examples: The purpose of standardization is to make life easier for users and also to save space on computers during storage huge amounts of data. The added benefit of getting an organized data package that helps to...Sumit ThakurSumit Thakursumitssrt@gmail.comAmministratoreCiao Friends, I am the person behind whatisdbms.com. 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