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INFORMATION TECHNOLOGY FOR CLASS 10

(Study material Based on N.C.E.R.T HANDBOOK)

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DATABASE MANAGEMENT SYSTEM

RDBMS

A relational database is a collective set of multiple data sets organized by tables, records and columns. Relational database establish a well-defined relationship between database tables. Tables communicate and share information, which facilitates data searchability, organization and reporting. A Relational database use Structured Query Language (SQL), which is a standard user application that provides an easy programming interface for database interaction

DATABASE OBJECTS

Tables: A table is a set of data elements (values) that is organized using a model of vertical columns(which are identified by their name) and horizontal rows. A table has a defined number of columns, but can have any number of rows. Each row is identified by the values appearing in a particular column identified as a unique key index or the key

Fields or Attributes:A column is a set of data values of a particular simple type, one for each row of the table.The columns provide the structure according to which the rows are composed. For example, cFirstName, or cLastName are fields in a row.

Rows or Records or Tuples:A row also called a Record or Tuple represents a single, data item in a table. In simple terms, a database table can be visualized as consisting of rows and columns or fields. Row in a table represents a set of related data, and every row in the table has the same structure.

CREATING DATABASE USING OPENOFFICE

There are a variety of DBMS/RDBMS available; in this exercise, you will learn about OpenOffice Base an Open Source RDBMS.

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