

Jaypee Institute of Information Technology

Database Systems & Web

15B11CI312

Tutorial –1

1. Discuss difference between Data, Persistent data, Information, Database and Database Management System with suitable example.
2. Let us suppose there are two organizations. One is having a smaller dataset, whereas other has a larger dataset. In which scenario will it be suitable to use a DBMS?
3. What is the role of Web in DBMS? Is it important to have a user-friendly interface for accessing and using DBMS?
4. Discuss need to migrate from old file processing system to DBMS.
5. Who are the people involved in handling DBMS? Discuss role of a database administrator?
6. Are you aware about the term OLTP? How it is related to DBMS?
7. XYZ company buys a database system to store information (Employee name, Address, Phone Number) of its employees. To save money, he wants to buy a DBMS with fewest possible features, and he plans to run it as a stand-alone application on his PC alone, only accessible to IT administrator.

Indicate which of the following DBMS features XYZ should pay for; in each case, also indicate why XYZ should (or should not) pay for that feature in the system he buys.

1. Security facility
 2. Concurrency control
 3. Crash recovery
 4. A view mechanism
 5. A query language
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8. Consider a table: Student, it has information about a student like – Name, Address, Email, and Picture. Using this table as an example, illustrate the difference
 - (a) between the three levels of data abstraction
 - (b) between a schema and instances.