

JAVA Means DURGASOFT

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2. Storage Areas



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Storage Areas

As part of the Enterprise Application development it is essential to manage the organizations data like Employee Details, CustomerDetails, Products Details..etc
-->To manage the above specified data in enterprise applications we have to use storage areas (Memoryelements). There are two types of Storage areas.

1) Temporary Storage Areas:

These are the memory elements, which will store the data temporarily
Eg: Buffers, Java Objects

2) Permanent Storage Objects:

These are the memory elements which will store data permanently.
Eg: FileSystems, DBMS, DataWareHouses.

File Systems:

It is a System, it will be provided by the local operating System.

- >Due to the above reason File Systems are not suitable for platform independent technologies like JAVA.
- >File Systems are able to store less volumes of the data.
- >File Systems are able to provide less security.
- >File Systems may increases data Redundancy.
- >In case of File Systems Query Language support is not available. So that all the database operations are complex.

DBMS:

- >Database Management System is very good compare to file System but still it able to store less data when compared to DataWareHouses.
- >DBMS is very good at the time of storing the data but which is not having Fast Retrieval Mechanisms.



DataWareHouses:

When Compared to File Systems and DBMS it is able to store large and large volumes of data.
-->Data ware houses having fast retrieval mechanisms in the form of data mining techniques.

Q)What is the difference between database and database management system

Ans: DataBase is a memory element to store the data.

Database Management System is a Software System,it can be used to manage the data by storing it on database and retrieving it form Database.

Database is a collection of interrelated data as a single unit.

DBMS is a collection of interrelated data and a set of programs to access the data.

There are three types of DBMS:

1)RDMS(Relational Database Management Systems)

2)OODBMS(Object Oriented DataBase Management Systems)

3)ORDBMS(Object Relational DataBase Management Systems)

1)Relational Database Management Systems:

-->It is a DBMS,it can be used to represent the data in the form of tables.

-->This DBMS will use SQL3 as a Query Language to perform DataBase Operations.

2)Object Oriented DataBase Management System:

-->It is DataBase Management System,it will represents the data in the form of Objects.

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-->This database management system will require OQL(Object Query Language)as Query language to perform database operations.

3)Object Relational DataBase Management System:

-->It is a DataBaseManagement System,it will represents some part of data in the form of Tables and some other part of the data in the form of objects

-->This DataBaseManagement System will require SQL3 as Query Language to perform database operations.

Where SQL3 is the combination of SQL2 and OQL

SQL3=SQL2+OQL



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