What is traditional method for storing data?

File system.

Disadvantages of file:

1. Data Redundancy

What is DBMS and its benefits?

It provides centralised data structure.  
  
One of the disadvantage in file system is it increases application development time. Similarly, one of advantages in DBMS is it reduces application development time. What do you mean by it explain?

Application development time is time taken by application creation, deletion, updation, compilation and execution time.

If you are using file system programming language does not provide any support directly to perform operations on files. We need to use file structures just like data structures to perform operations as a result we need to write lengthy code which increases application development time.

In case of DBMS, it has built in programming language support exclusively for data operations in the form of SQL and data operations can be performed directly using SQL simple commands. As result application development time reduces.  
  
What is Database?

Collection of inter related data. Every database is in 2 forms:

1. Logical database
2. Physical database

Logical database is placed in main memory and physical database is placed in secondary memory (disk). When user is working with database using programs, he interacts with logical database and performs logical operations in main memory and after all operations it transferred to physical database through conceptual layer. For this transfer it uses temporary memory called buffer pool.

Similarly when we need logical database it fetches data from physical database and transfer it to user.

The structure of logical database is called Logical database schema.

The structure of physical database is called Physical database schema.

DBMS is 3 layer architecture.

Logical data model is in tree form

Tools which supports hierarchical data model are: Dbase, FoxPro

Tools which supports network data model are: Informix, Ingress  
Tools which supports relational data model are:

1. Sybase
2. Oracle
3. Sql server( Microsoft)
4. mySQL
5. Postgresql

Object relational data model supports:

1. User defined datatypes
2. Table partitioning

Different users of DBMS:

1. Database designer
2. Application programmer
3. Database Administrator
4. End users

What are roles and duties of DBA?

1. Designing physical database
2. Database tuning
3. Creates user and privileges
4. Back up and recover

What is SQL and which company designed it initially?

It is database language which was designed by IBM.

Embedded SQL: