

Lab 1

1.Explain what is meant by a Database Management System and contrast it with a File Management System.

Ans:-

Data base management system is a combination of computer software, hardware, and information designed to electronically manipulate data via computer processing.

- Unlike file Management System DBMS separates the structure of the data from the application programs and stores it in the database. But in file management system the data is embedded in the application program.
- It has a security system, which prevents unauthorized users accessing the database. But file Management system has no provision for security.

File Management System allows access to single files or tables at a time. accommodate flat files that have no relation to other files.

2. List two examples of database systems other than those listed in Section 1.1 of the book.

Ans:-

- List of Employees in a certain company
- online flight ticket reservation

3.Briefly explain a couple of your favorite advantages and disadvantages of DBMSs.

Advantages of DBMS

- Control of data redundancy
- Data Consistency
- More information from same amount of data.
- Sharing of data
- Improved data integrity
- Enforcement of standards

Disadvantages of DBMS

- Complexity
- Size
- Cost of DBMS
- Additional hardware costs
- Performance
- Higher impact of Failure.

Ans:-

4. What are the 5 major components of DBMS environment? Which one of them you think we'll be mostly concentrating on in this course?

1. **Ans:-**

- Hardware
- Software
- Data
- Procedure
- People

5.False

6.False

7.

D. All of the above

8.False

9.

D. All of the above

10.

D. All of the above