

## RGPV 2018

Define database management systems (DBMS). What are the major components of this system ? Explain each component.

**Ans.** A DBMS is used for storing, manipulating, and managing data.

Some examples of DBMSs:

1. MySQL,
2. Microsoft SQL Server,
3. Microsoft Access,
4. Oracle

In DBMS an organized collection of structured information, or data, typically stored electronically in a computer system is known as database.

The data and the DBMS, along with the applications that are associated with them, are referred to as a database system.

Some types of databases:

1. Hierarchical databases.
2. Network databases.
3. Object oriented databases.
4. Relational databases.
5. NoSQL databases.

Some components of DBMS:

1. Software: DBMS software, operating systems, networking softwares etc.
2. Hardware: Harddisk, RAM, I/O device, etc.
3. Data: Values stored in DBMS.
4. Data dictionary: it stores information about data.
5. Database administrator: The admin in DBMS.

6. Database access languages: DDL, DML, DCL, TCL, etc.

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