

Database Administrator (DBA)

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Introduction to DBA

- Centralized control of the database is exerted by a person or group of persons under the supervision of a high-level administrator. This person or group is referred to as the **database administrator (DBA)**.
- They are the users who are most familiar with the database and are responsible for creating, modifying, and maintaining its three levels.
- DBA is responsible for granting permission to the users of the database

Responsibilities of DBA

□ Making decisions concerning the content of the database:

- It is the DBA's job to decide exactly what information is to be held in the database.
- In other words, to identify the entities of interest to the enterprise and to identify the information to be recorded about those entities.

Responsibilities of DBA

❑ Deciding the storage structure and access strategy

- The DBA must also decide how the data is to be represented in the database, and must specify the representation by writing the storage structure definition.

❑ Providing support to users:

- It is the responsibility of the DBA to provide support to the users, to ensure that the data they require is available.

Responsibilities of DBA

□ Defining a strategy for backup and recovery

- In the event of damage to any portion of the database – caused by human error, say, or a failure in the hardware or supporting operating system – it is essential to be able to repair the data concerned with a minimum of delay and with as little effect as possible on the rest of the system.

Responsibilities of DBA

❑ Defines security and integrity checks:

- DBA is responsible for providing the authorization and authentication checks so that no malicious users can access database & it must remain protected.

❑ Monitoring performance and responsibilities to changes in requirements

- The DBA is responsible for so organizing the system as to get the performance that is “best for the enterprise” and for making the appropriate adjustments change.