

Name: Syeda Nowshin Ibnat

ID: 17183103020

Answer to the question no 1(b):

A database Administrator (DBA) is a specialized computer systems administrator who maintains a successful database environment by directing or performing all related activities to keep the data secure. The top responsibility of a Database Administrator professional is to maintain data integrity. This means the Database Administrator will ensure that data is secure from unauthorized access but is available to users.

If I get appointment as the database administrator of the above university of question 1(a) and I've to perform different type of tasks to maintain the system, then I will do the following tasks:

**Schema and physical-organization modification:** As a Database Administrator I will carry out changes to the schema and physical organization to reflect the changing needs of the University.

**Granting of authorization for data access:** By granting different types of authorization, As a database administrator I can regulate which parts of the database various users can access. The authorization information is kept in a special system structure that the database system consults whenever someone attempts to access the data in the system.

**Routine maintenance:** As a database administrator these will be my routine maintenance activities:

- Periodically backing up the database, either onto tapes or onto remote servers, to prevent loss of data in case of disasters such as flooding.
- Ensuring that enough free disk space is available for normal operations, and upgrading disk space as required.
- Monitoring jobs running on the database and ensuring that performance is not degraded by very expensive tasks submitted by some users.

Some more tasks I will perform as database administrator:

- Installation, configuration and upgrading of Database server software and related products.
- Evaluate Database features and Database related products.
- Take care of the Database design and implementation.
- Implement and maintain database security (create and maintain users and roles, assign privileges).
- Setup and maintain documentation and standards.
- Work as part of a team and provide 24x7 support when required.