

Database Creation and Management

Roles in Database Environment

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Outline

- Database Users
- Database Administrators (DBA)

Database Users

- Database users are the one who really use and take the benefits of database.
- There will be different types of users depending on their need and way of accessing the database.
 - **Database Administrator (DBA)**
 - **Naive / Parametric End Users**
 - **System Analyst**
 - **Sophisticated Users**
 - **Data Base Designers**
 - **Application Program**
 - **Casual Users / Temporary Users**

Database Administrator (DBA)

- DBA is a person/team who defines the schema and also controls the 3 levels of database.
- The DBA will then create a new account id and password for the user if he/she need to access the data base.
- DBA is responsible for providing security to the data base and he allows only the authorized users to access/modify the data base.
- DBA monitors the recovery and back up and provide technical support.

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- The DBA has a DBA account in the DBMS which called a system or superuser account.
- DBA repairs damage caused due to hardware and/or software failures.

Naive / Parametric End Users

- Parametric End Users are the unsophisticated who don't have any DBMS knowledge but they frequently use the data base applications in their daily life to get the desired results.
- For examples, Railway's ticket booking users are naive users. Clerks in any bank is a naive user because they don't have any DBMS knowledge but they still use the database and perform their given task.

System Analyst

- System Analyst is a user who analyzes the requirements of parametric end users.
- They check whether all the requirements of end users are satisfied.

Sophisticated Users

- Sophisticated users can be engineers, scientists, business analyst, who are familiar with the database.
- They can develop their own data base applications according to their requirement.
- They don't write the program code but they interact the data base by writing SQL queries directly through the query processor.

Data Base Designers

- Data Base Designers are the users who design the structure of data base which includes tables, indexes, views, constraints, triggers, stored procedures.
- He/she controls what data must be stored and how the data items to be related.

Application Program

- Application Program are the back end programmers who writes the code for the application programs.
- They are the computer professionals.
- These programs could be written in Programming languages such as Visual Basic, Developer, C, FORTRAN, COBOL etc.

Casual Users / Temporary Users

- Casual Users are the users who occasionally use/access the data base but each time when they access the data base they require the new information.
- For example, Middle or higher level manager.