

DATABASE USERS

According to tasks performed on database by different users, we can classify database users in 5 categories as per given below:

- 1. Database Administrator**
- 2. Naive Users**
- 3. Application Programmers**
- 4. Sophisticated Users**
- 5. Specialized Users**

1. Database Administrator (Super Users):

A single person or a team of members can be database administrator.

An administrator has full control on database. Their account is called superuser account.

Administrator defines the logical and physical schemas and manages all three levels of database. Even they can control view level schemas as well.

They grant/revoke authorization permission to all other users.

They design the overall structure of database including, layouts, functioning, procedures and motives.

They are responsible for routine maintenance, backup and recovery of the database.

They perform all admin related activities like time to time updating, insert new required values /functions, modify the existing etc.

They provide technical support or arrange the same.

They control these all operations as well:

Security, integrity, redundancy, concurrency, hardware and software management

They always update the database in terms of technology, function, aim and requirements to make database ready for future scope.

2. Naive Users (End Users):

These are the actual users who uses the database to fill the information, but most of the naive users have no knowledge of a database and how to operate it. They just use the view level with the help of interface methods provided.

These are again divided in two categories:

- (1) **Parametric Users:**

These types of users just use the predefined programs like booking online tickets, fill online forms, apply for the online facilities etc.

(2) **Casual Users:**

All parametric users are also casual users, but these types of users can use the basic programming to fill the data in database. They are provided with little training or user guide to have a little knowledge about the database technology.

3. Application Programmer (Backend Users):

These are the people who do all programming to make database a real-world entity.

We can classify these in below three categories:

(1) **Designers:**

These are the first contact person if you want a database to be created. They try to understand your requirements related a database like, layout, looks, functioning, programming, costing, technologies or techniques etc. After get all the information they design the final layout for programmers to code it. Also, they create structure of a database like tables, relationships, procedures, constraints, views, communication etc.

(2) **System Analysts:**

These are the persons who check current similar options and do the needful to change or update the final layout to make it unique. Also, they check and gather all the information related resources. They make sure that the buyer should be satisfied with the final product.

(3) **Programmers:**

These are the professional persons who finally do the coding to make the final layout a real-world entity. The programming is sub divided in 2 categories:

With tools programming: Use available tools to make development faster.

Without Tools programming: Do all the programming required themselves.

4. Sophisticated Users:

These users have knowledge of DDL, DML and use these both to write down queries to make their own databases or access the current database. These users are like a little techno savvy person or are provided with the complete training to do the needful. They can be engineers, analysts, scientists of the same organization or others.

5. Specialized Users:

These persons are something like combination of database administrators and programmers. They write down their own programs to access the database. They can even overcome the sequential access structure and cross access the database framework. They need not to follow any procedure, instead they can make their own procedures. These professionals are hired to find out any anomalies and error in current system.