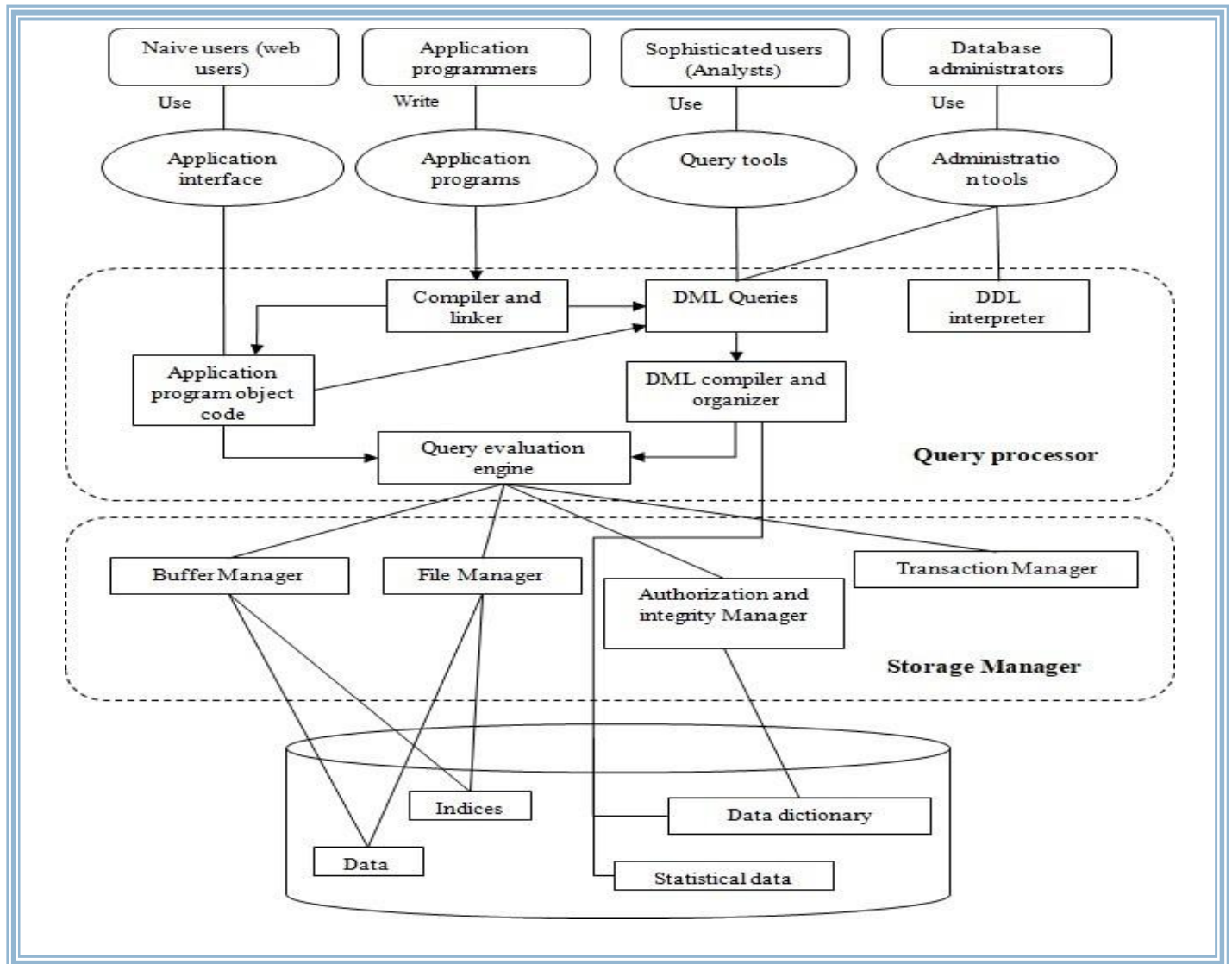


➤ Structure of Database systems:-



These are,

1. Users
2. Applications
3. Query processor
4. Storage Manager
5. Disk Storage

1. Users:-

Data base users:- users are differentiated by the way they expect to interact with the system.

A) Application Programmers:- Application programmers are computer professionals who write application programs.

B) Sophisticated users:- Sophisticated users interact with the system without writing programs. Instead, they from their requests in a database query language.

- They submit each Query to Query Processor.

C) Naïve users:- Naïve users are unsophisticated users who interact with the system by invoking one of the application programs that have been written previously.

Ex:-Transfers money from one account to another account.

D) Database Administrator(DBA):-

Co-ordinates all the activities of the database system.

- DBA has a good understanding of enterprises information resources and needs.

Duties:-Schema definition:- The DBA creates the original database schema by executing a set of data definition statements in DDL.

- Storage structure and access method definition.
- Schema and physical organization modification.
- Granting user authority to access the database.
- Monitoring performance and responding to changes in requirements.

3. Query Processor:-

The Query processor will accept Query from user and solves it by accessing the database.

A) DDL Interpreter:-

This will interprets DDL statements and fetch the definitions in the data dictionary.

B) DML Compiler:-

This will translates DML statements in a Query language into low level instructions that the Query evaluation engine understands.

C) Query Evaluation Engine:-

This Engine will execute low-level instructions generated by DML Compiler on DBMS.

4. Storage Manager:-

A Storage manager is a program module which acts like interface between the data stored in a database and the application programs and Queries submitted to the system.

- Storage manager is responsible for storing, retrieving and updating data in the database.

