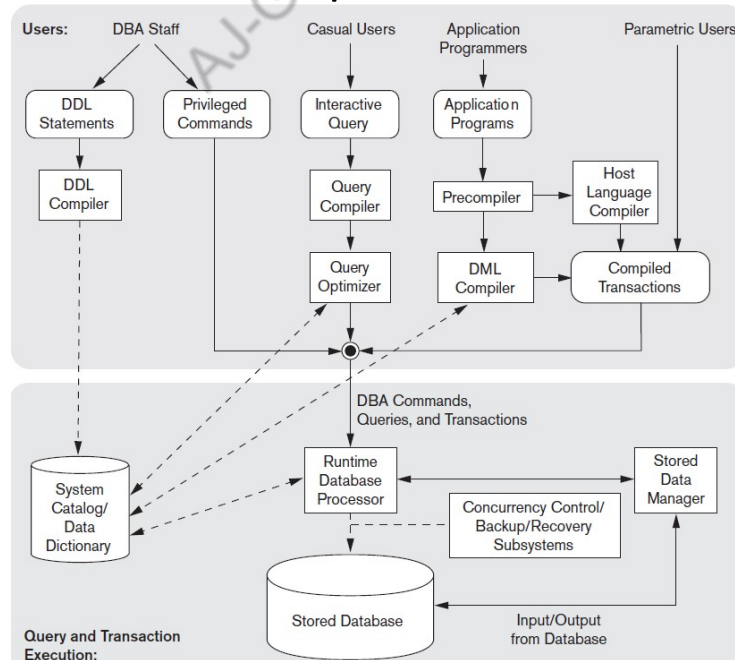# Database Management System – 7 (Database System Environment)

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DBMS Component Modules

Database System Utilities

- Loading data stored in files into a database
- Backing up the database periodically
- Reorganizing database file structures
- Report generation utilities
- Performance monitoring utilities
- Other functions, such as sorting, user monitoring, data compression, etc.

Other Tools

- Data dictionary / repository:
  - Used to store schema descriptions
  - Information such as design decisions, application program descriptions, user information, usage standards, etc.
  - **Active data dictionary** is accessed by DBMS software and users/DBA.
  - **Passive data dictionary** is accessed by users/DBA only.

Other Tools

- Application Development Environments and CASE (computer-aided software engineering) tools:
  - PowerBuilder (Sybase)
  - JBuilder (Borland)
  - JDeveloper 10G (Oracle)
- Communication Software

Reference

- Elmasri R. and S. Navathe, Database Systems: Models, Languages, Design and Application Programming, Pearson Education 6th edition and 7th edition

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Thank you