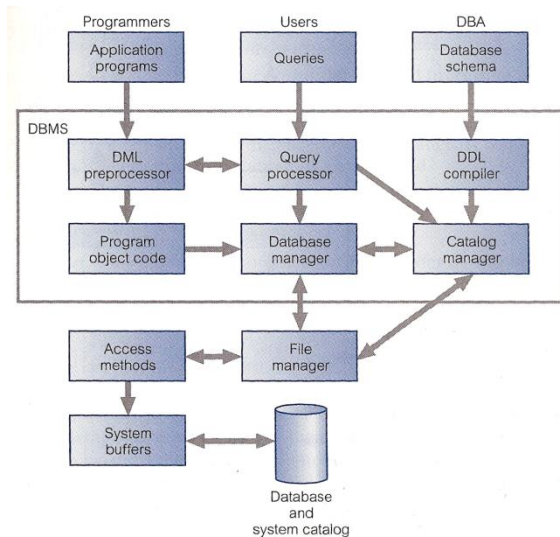


**Database Design, CSCI 340, Spring 2016**  
**Class exercise, Transactions, Concurrency and Recovery, April 13**

Recall the figures from Chapter 3:

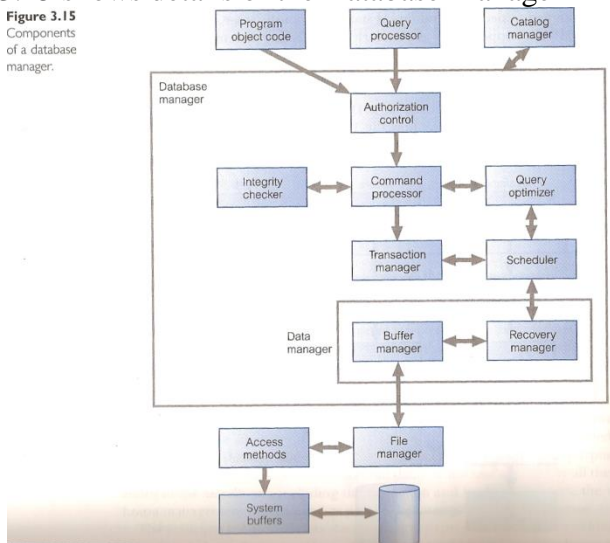
Figure 3.14 shows the major components of a DBMS



**Figure 3.14**  
Major components of a DBMS.

Figure 3.15 shows details of the Database Manager

**Figure 3.15**  
Components of a database manager.



Think of how each service is being offered by the DBMS which we have studied (MySQL and SQLServer). Draw lines showing the component(s) which most likely handles the service.

Services typically provided by a DBMS (pages 50-54):

1. Data storage, retrieval and update
2. User-accessible catalog
3. Transaction support
4. Concurrency control
5. Recovery
6. Authorization
7. Support for data communications
8. Integrity
9. Data independence
10. Utilities – importing, monitoring

