Performance and Failure Transparency

- Considerations for resolving data requests in a distributed data environment:
  - Data distribution and data replication
    - **Replica transparency**: DDBMS's ability to hide multiple copies of data from the user
  - Network and node availability
    - **Network latency**: Delay imposed by the amount of time required for a data packet to make a round trip
    - **Network partitioning**: Delay imposed when nodes become suddenly unavailable due to a network failure