**Work through the following materials this week:**

1. **Read Section 30.1:**
   1. **Name and explain the four kinds of *control measures* required for database security.**Access control - restrict access  
      Inference control - infer someone about the user through stats  
      Flow control - prevent data from flowing in a way to an authorized users  
      Data encryption - data transferred through networks must be encrypted to be safe.
   2. **Compare and contrast *information security* and *information privacy*.**Security is protecting things from unauthorized use. Privacy goes beyond security. How we use the data we have.
2. **Read Imperva’s** [**Top 5 Database Security Threats**](https://www.imperva.com/docs/gated/WP_Top_5_Database_Security_Threats.pdf)**.**
   1. **Name and explain the security threats discussed in the article.**
      1. **Excessive, inappropriate, and unused privileges**Grant someone privileges that exceed the requirements for their job function.
      2. **Privilege abuse**People with access abuse their power.
      3. **Insufficient web application security**Common insecurity is SQL injection and Web shell
      4. **Weak audit trails**Checking accounts and data weakly.
      5. **Unsecured storage media**Physical access to database.