

**Introduction to Databases (X-409.1)**  
**Assignment 7 (Due by Class Meeting 9)**

- For the medium-sized business schema used in Assignments 4 and 5, write SQL statements for the following:
  - Create roles for the Managers, HR Specialists, and Other Users.
  - Grant privileges to the roles as follows:
    - All users have read access to all the tables except Employment.
    - Managers have read access to all the tables (including Employment), plus the ability to apply inserts, updates, and deletes to all tables **except** Division, Department, Work\_Group, Pay\_Grade, Employment, and Employee\_Work\_Group\_Assignment
    - HR Specialists have read access to all tables (including Employment), plus the ability inserts, updates, and deletes to the Division, Department, Work\_Group, Pay\_Grade, Employment, and Employee\_Work\_Group\_Assignment

Hint: To simplify your task, assume you can grant roles to other roles.

- List the security precautions you would recommend for each of the following database applications:
  - Company personnel database
  - Hospital medical records database
  - Bank checking account database
  - Consumer credit database
  - Automobile insurance claims database
  - Medical insurance claims database
  - Personal music library and playlist database