

W07 Scenario:

Karl is encouraged by your efforts and wants to ramp up development efforts of the bowling system. He hires Ralph, who says he is a SQL Server DBA, to help you and support a small growing team of developers. It doesn't take you long to find out Ralph has a nasty habit... "Hey, as long as we are just developing things, I just add all new users to the sysadmin server role. That way I can go out for my deep dish pizza without getting a phone call about someone having insufficient privileges and halting development." You know this "natural man" attitude doesn't feel quite right, so you decide to take action.

W07 Scenario Submission Guidelines:

Be sure you submit all elements labeled by the bolded word, **SHOW**.

1. You realize you need to explain to Ralph and Karl why you think the overuse of the [sysadmin role](#) can cause trouble and should be avoided at all costs.

SHOW 1: Your understanding of security best practices by explaining this in your video.

2. Implement a [daily scheduled job](#) to check for all logins with the sysadmin role to keep tabs on the extent of this issue and be able to revoke sysadmin when needed.
 - a. Create a SQL Authenticated login for Ralph and add it to the sysadmin server role.
 - b. Investigate system security catalog views, such as [sys.server_principals](#) or [sys.server_role_members](#), to create a query to list the name of each account with sysadmin privileges and the last modified date of that login. **HINT:** Do a web search to find an example of such a query. It is a common security question!
 - c. Set up a custom audit job that runs daily and inserts the data from your query into a new table each time. The job should have two steps (refer to the stepping stone video). You do not need to make or use a stored procedure. Just use an [INSERT INTO SELECT](#).
 - d. Log in as Ralph and simulate his behavior by creating four new logins and adding them all to the sysadmin role.
 - e. Run your custom audit job again to see if it captured Ralph's behavior in step d.

SHOW 2:

- I. A demonstration of you running the new job.
- II. The job history showing all steps successful.
- III. The contents of your custom table (step c) which should include the four new sysadmin logins that Ralph created in step d.