Institute of Computer Technology

B. Tech Computer Science and Engineering

Sub: Identity and Access Management (2CSE507)

Name - Nisarg Prajapati

Branch - Cyber Security

Enrollment no. – 23162171019

Semester - 5

Class - A

Batch – 52

PRACTICAL NO:- 9

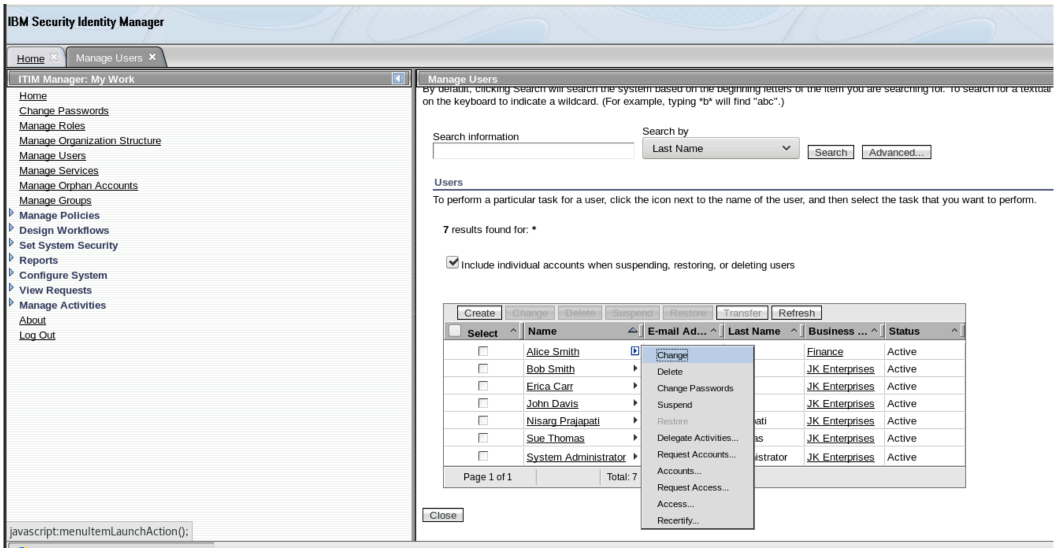
Aim : User management and Role management

Exercise 1 : Changing user information

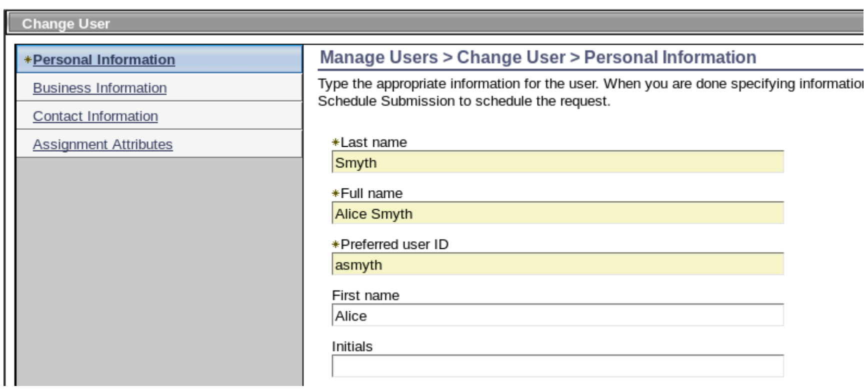
Changing a name

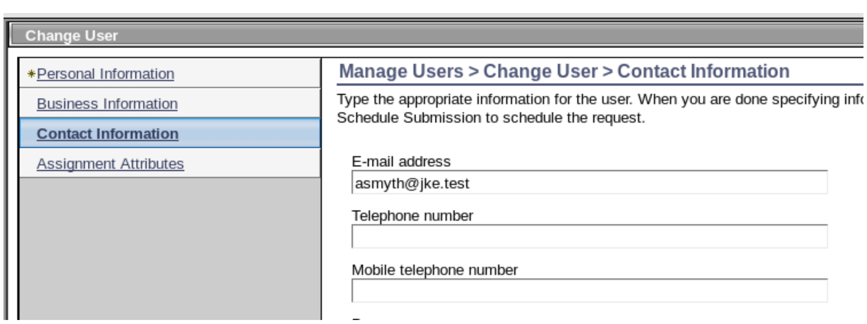
Alice Smith gets married and decides to take her husband’s surname, Smyth. In this part of the exercise, you modify her personal information to reflect the change.

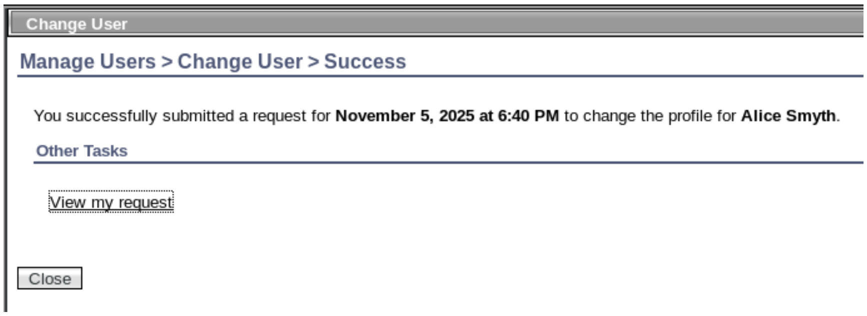
1. On the Home tab, go to Manage Users.
2. Click Refresh. Locate Alice Smith. Click the arrow to the right of the name and click Change.



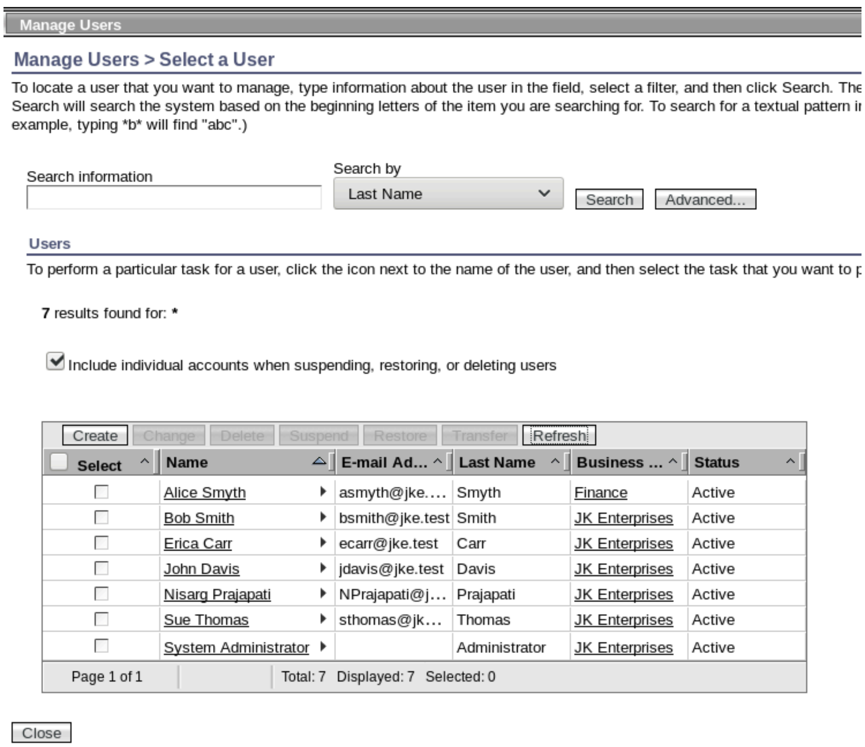
3. Change the Last name, Full name, Preferred user ID, and email address attributes to reflect her married name, Smyth. Click Submit Now to send the update.





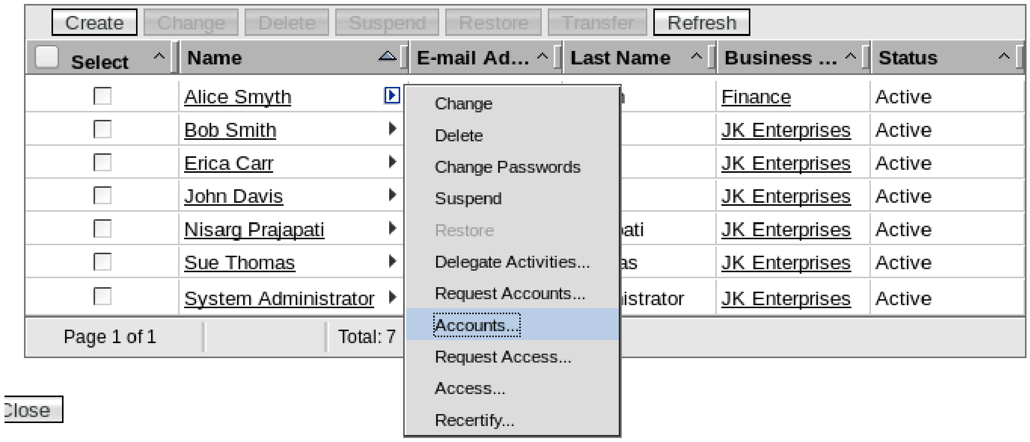


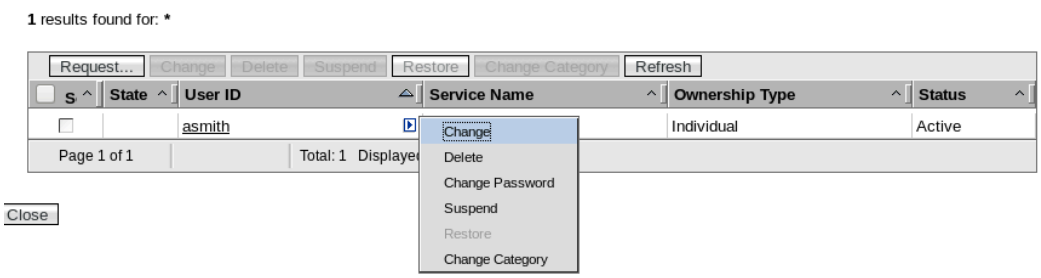
4. Refresh the user list to confirm the name change.

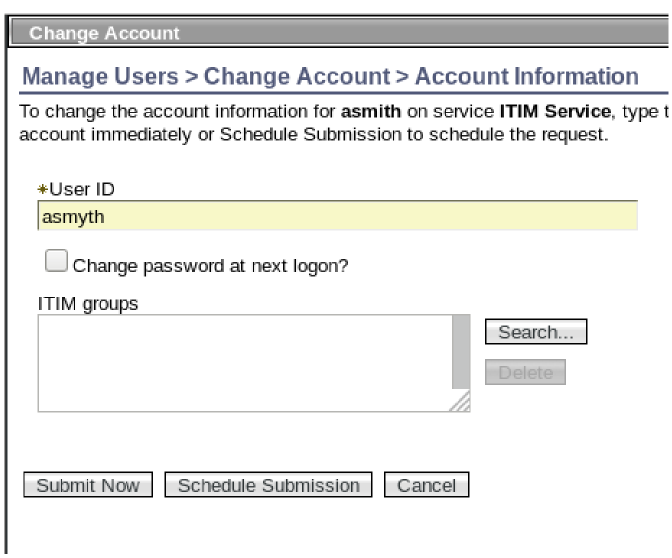


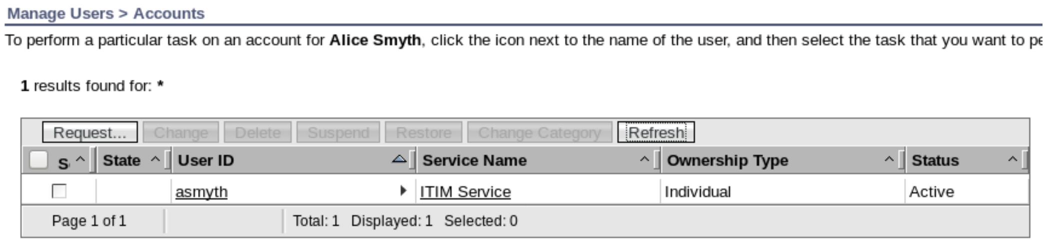
Select	Name	E-mail Ad...	Last Name	Business ...	Status
☐	Alice Smyth	asmyth@jke....	Smyth	Finance	Active
☐	Bob Smith	bsmith@jke.test	Smith	JK Enterprises	Active
☐	Erica Carr	ecarr@jke.test	Carr	JK Enterprises	Active
☐	John Davis	jdavis@jke.test	Davis	JK Enterprises	Active
☐	Nisarg Prajapati	NPrajapati@j...	Prajapati	JK Enterprises	Active
☐	Sue Thomas	sthomas@jk...	Thomas	JK Enterprises	Active
☐	System Administrator		Administrator	JK Enterprises	Active

5. Click the arrow to the right of Alice Smyth and click Accounts. Click Refresh. For the account on ITIM Service, Click arrow to the right and Click Change and change the user id from asmith to asmyth and Submit the request. Click Refresh to confirm changes.





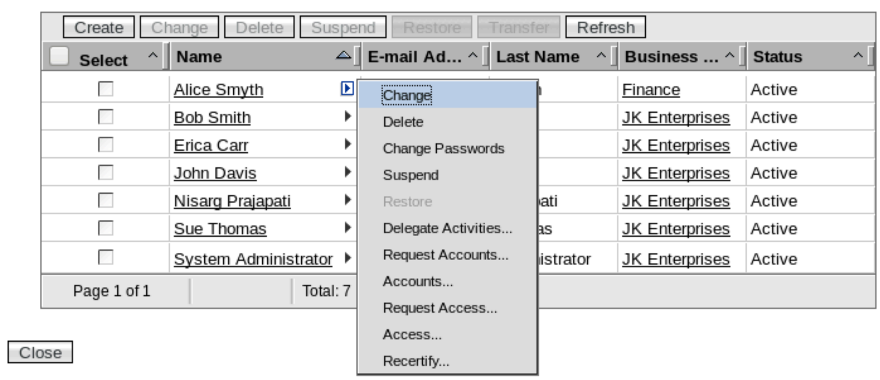




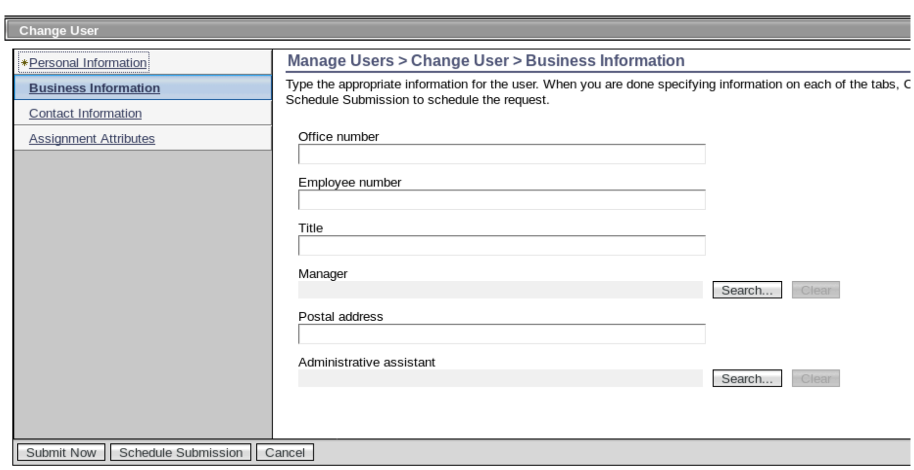
Changing a manager attribute

Through a management restructuring, Alice Smyth now reports to Sue Thomas. In this part of the exercise, you modify Alice's manager attribute.

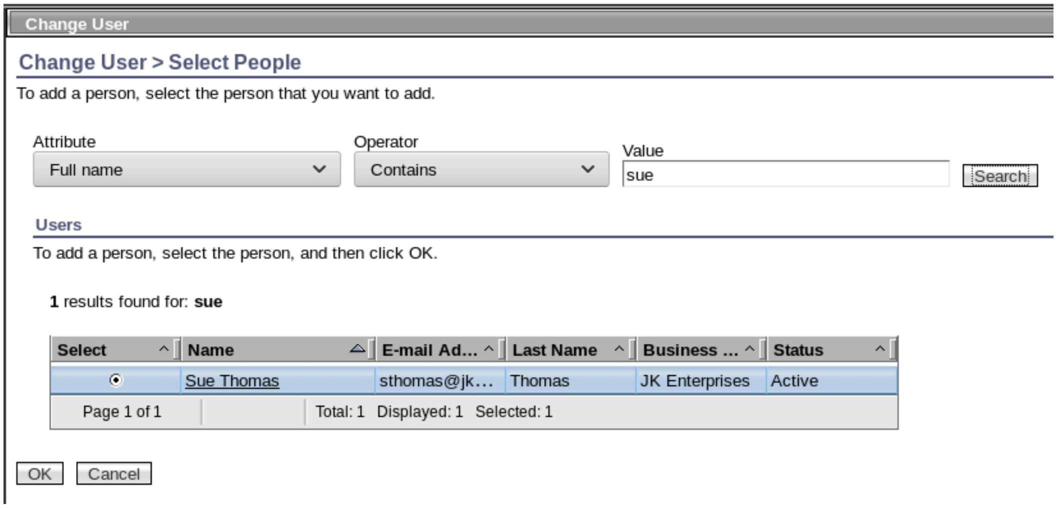
1. On the Home tab, you go to Manage Users.
2. Locate Alice Smyth. Click the arrow to the right of the name and click Change.

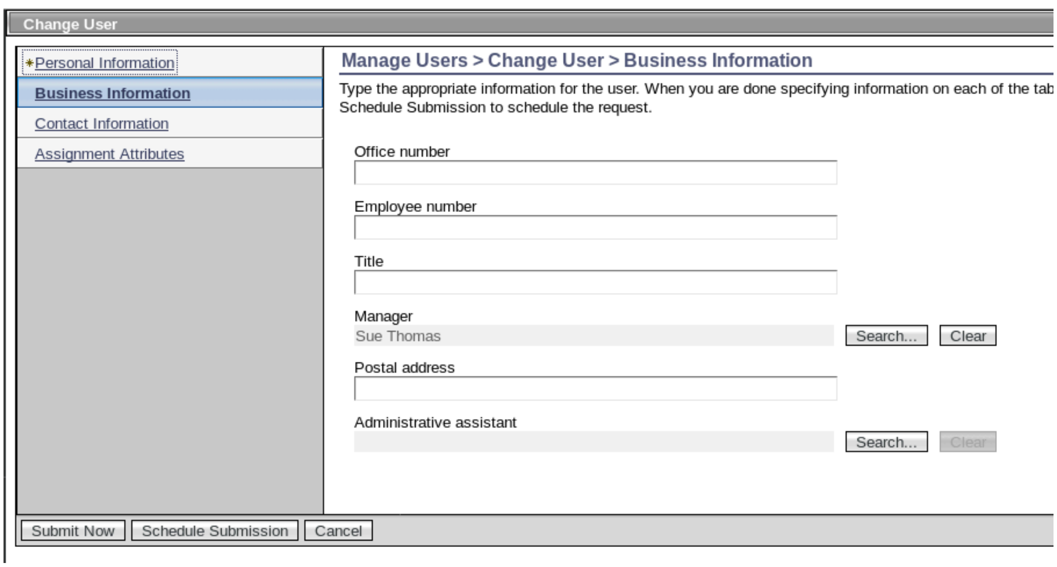


3. Click the Business Information tab.



4. In the Manager field, click Search and locate Sue Thomas. Select Sue as the manager and Click OK.



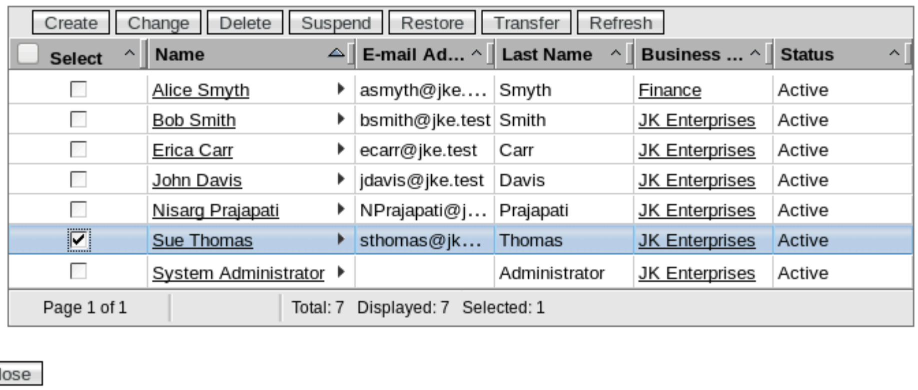


5. Click Submit Now to update the entry. Click Close.

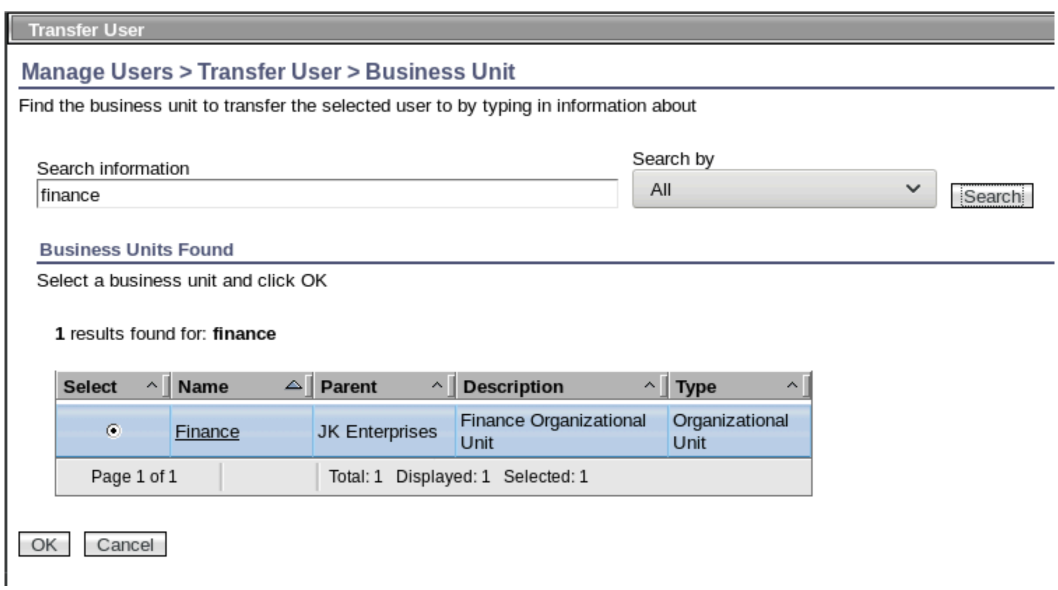
Exercise 2 : Transferring users

If a user is promoted, or is added to the incorrect branch of the organization tree, you can transfer the user to the proper branch.

1. On the Home tab, go to Manage Users.
2. Search the user list and locate the entry for Sue Thomas.
3. Select the Sue Thomas entry and click Transfer.



4. Search for the Finance organizational unit. Select Finance and click OK.



5. Click Transfer. Click Close.
6. Return to the Manage Users tab. Refresh the user list to verify that Sue Thomas is transferred.

Create Change Delete Suspend Restore Transfer Refresh

Select	Name	E-mail Ad…	Last Name	Business …	Status
☐	Alice Smyth	asmyth@jke.…	Smyth	Finance	Active
☐	Bob Smith	bsmith@jke.test	Smith	JK Enterprises	Active
☐	Erica Carr	ecarr@jke.test	Carr	JK Enterprises	Active
☐	John Davis	jdavis@jke.test	Davis	JK Enterprises	Active
☐	Nisarg Prajapati	NPrajapati@j…	Prajapati	JK Enterprises	Active
☐	Sue Thomas	sthomas@jk…	Thomas	Finance	Active
☐	System Administrator		Administrator	JK Enterprises	Active

Page 1 of 1 Total: 7 Displayed: 7 Selected: 0

7. Repeat steps 1 through 6 to transfer Bob Smith to the WW location in Sales. Also, transfer John Davis to the TechSupport business partner organization.
8. When you are done, the user list should look like this:

Create Change Delete Suspend Restore Transfer Refresh

Select	Name	E-mail Ad…	Last Name	Business …	Status
☐	Alice Smyth	asmyth@jke.…	Smyth	Finance	Active
☐	Bob Smith	bsmith@jke.test	Smith	WW	Active
☐	Erica Carr	ecarr@jke.test	Carr	JK Enterprises	Active
☐	John Davis	jdavis@jke.test	Davis	TechSupport	Active
☐	Nisarg Prajapati	NPrajapati@j…	Prajapati	JK Enterprises	Active
☐	Sue Thomas	sthomas@jk…	Thomas	Finance	Active
☐	System Administrator		Administrator	JK Enterprises	Active

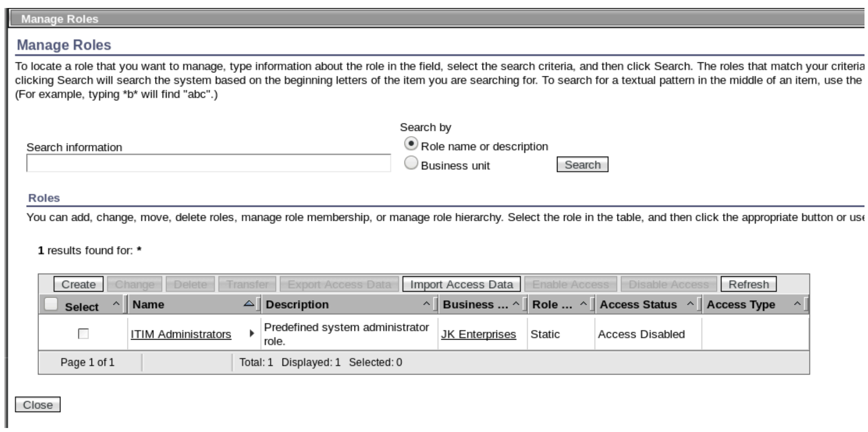
Page 1 of 1 Total: 7 Displayed: 7 Selected: 0

Exercise 3 : Creating organizational roles

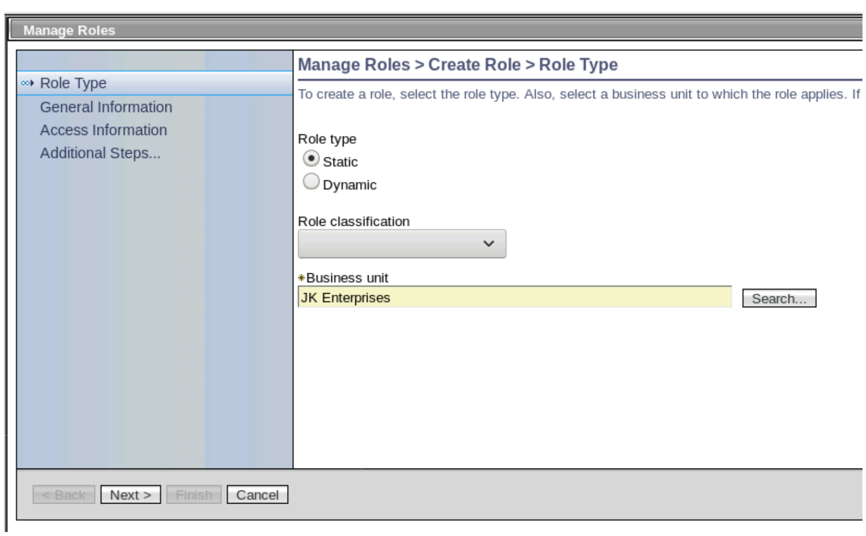
JK Enterprises wants to create organizational roles for the various functions in each department. In this exercise, you create static and dynamic roles.

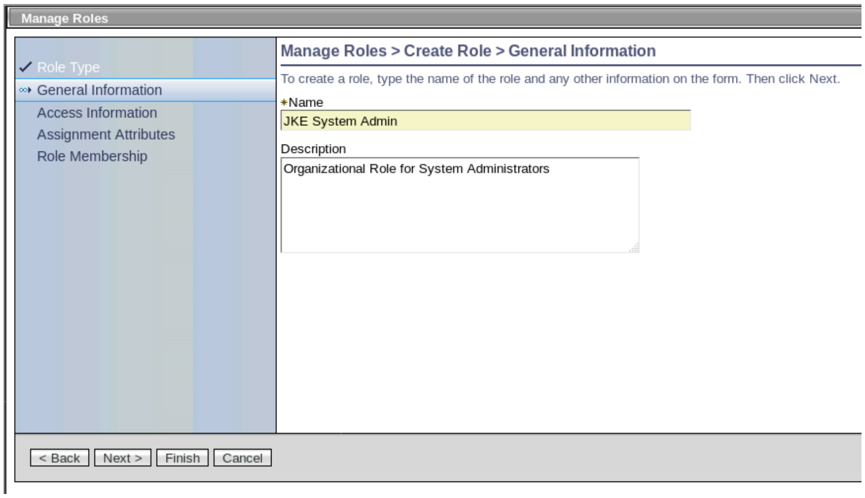
Creating static organizational roles

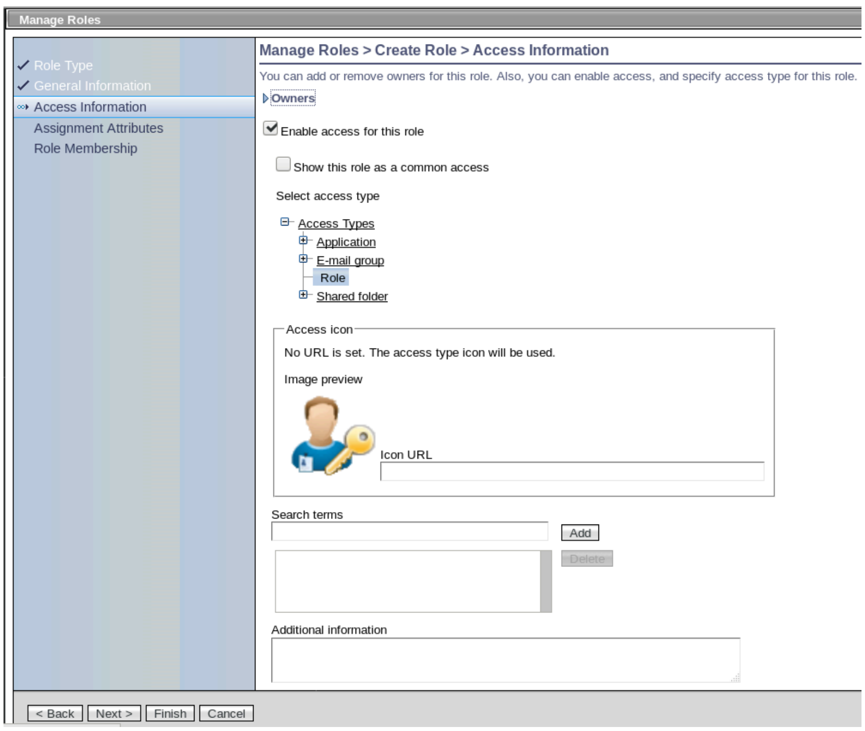
1. On the Home tab, click Manage Roles.
2. Click Create to add a new role.

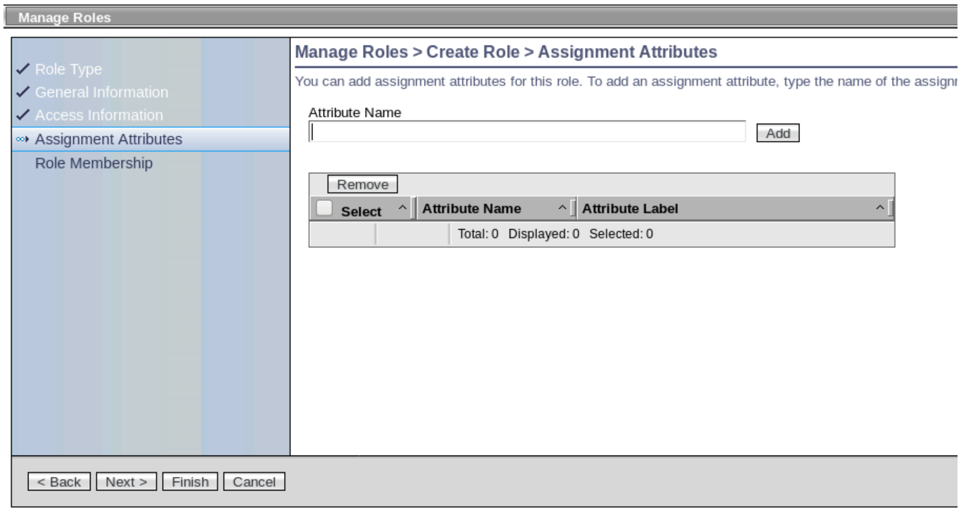


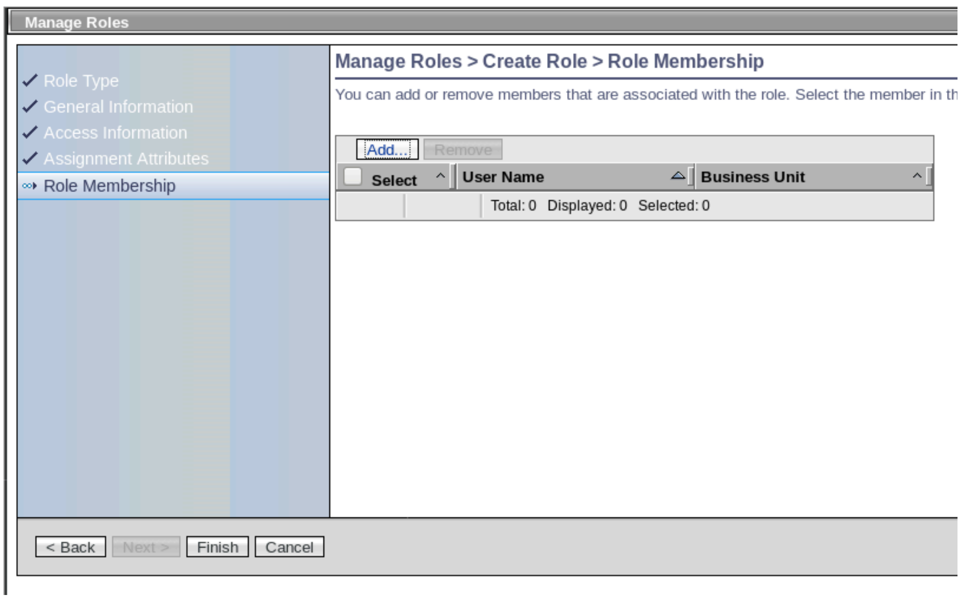
3. Complete the Create Role form with the following information:

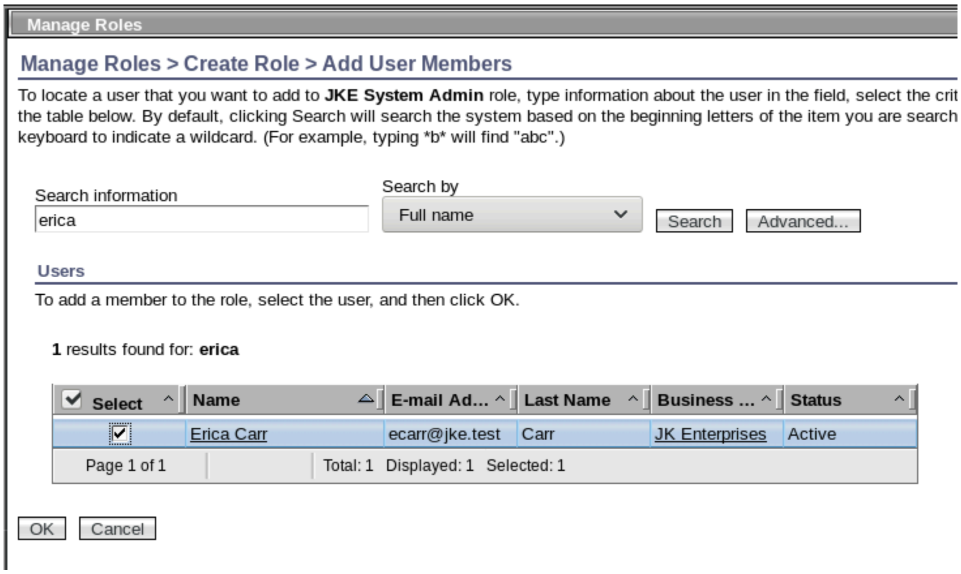


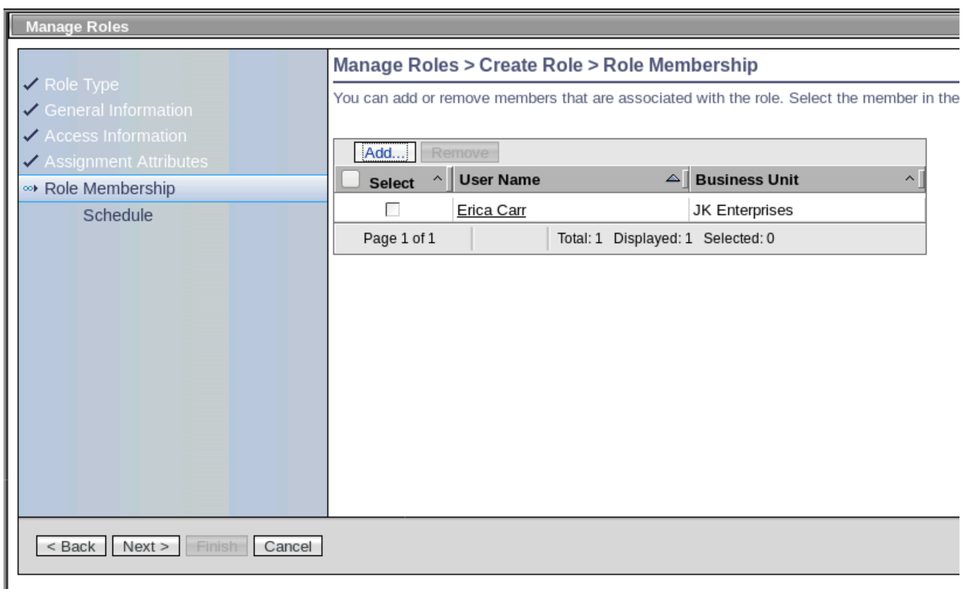

Manage Roles
Role Type
General Information
Access Information
Assignment Attributes
Role Membership
Manage Roles > Create Role > General Information
To create a role, type the name of the role and any other information on the form. Then click Next.
Name
JKE System Admin
Description
Organizational Role for System Administrators
< Back
Next >
Finish
Cancel


Manage Roles
Role Type
General Information
Access Information
Assignment Attributes
Role Membership
Manage Roles > Create Role > Access Information
You can add or remove owners for this role. Also, you can enable access, and specify access type for this role.
Owners
Enable access for this role
Show this role as a common access
Select access type
Access Types
Application
E-mail group
Role
Shared folder
Access icon
No URL is set. The access type icon will be used.
Image preview
Icon URL
Search terms
Add
Delete
Additional information
< Back
Next >
Finish
Cancel

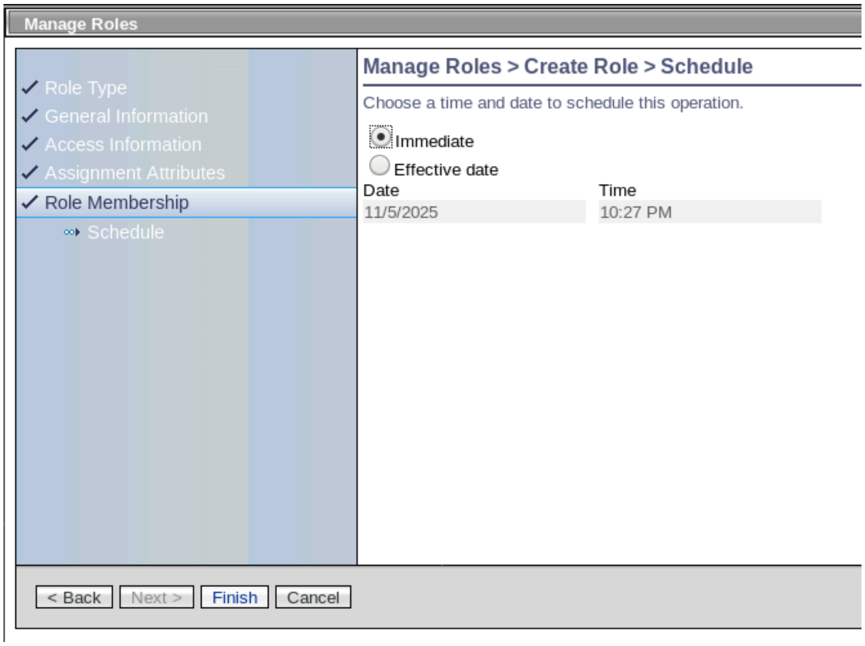

Manage Roles
Role Type
General Information
Access Information
Assignment Attributes
Role Membership
Manage Roles > Create Role > Assignment Attributes
You can add assignment attributes for this role. To add an assignment attribute, type the name of the assignı
Attribute Name
Add
Remove
Select
Attribute Name
Attribute Label
Total: 0 Displayed: 0 Selected: 0
< Back
Next >
Finish
Cancel

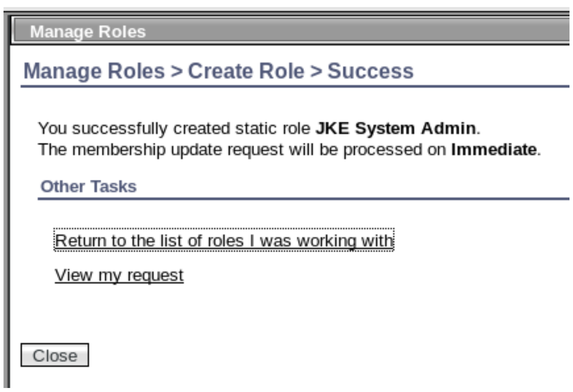

Manage Roles
Role Type
General Information
Access Information
Assignment Attributes
Role Membership
Manage Roles > Create Role > Role Membership
You can add or remove members that are associated with the role. Select the member in th
Add...
Remove
Select
User Name
Business Unit
Total: 0 Displayed: 0 Selected: 0
< Back
Next >
Finish
Cancel

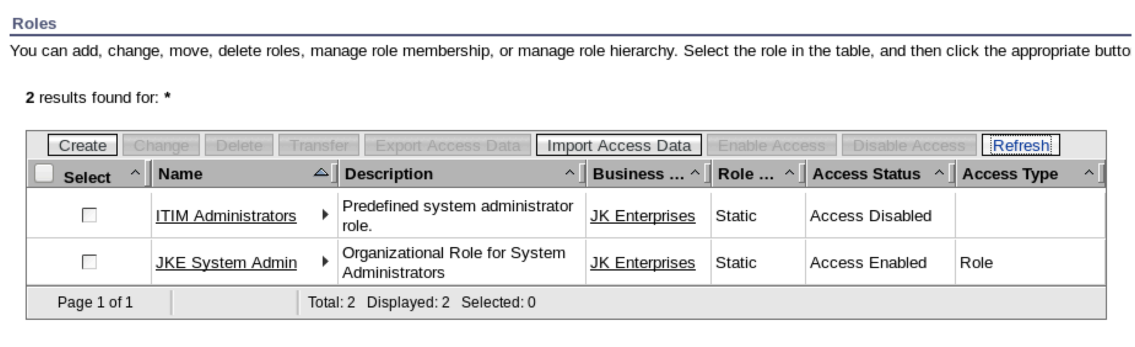

Manage Roles
Manage Roles > Create Role > Add User Members
To locate a user that you want to add to JKE System Admin role, type information about the user in the field, select the crit
the table below. By default, clicking Search will search the system based on the beginning letters of the item you are search
keyboard to indicate a wildcard. (For example, typing *b* will find "abc".)
Search information
erica
Search by
Full name
Search
Advanced...
Users
To add a member to the role, select the user, and then click OK.
1 results found for: erica
Select
Name
E-mail Ad...
Last Name
Business ...
Status
Erica Carr
ecarr@jke.test
Carr
JK Enterprises
Active
Page 1 of 1
Total: 1 Displayed: 1 Selected: 1
OK
Cancel


Manage Roles
Role Type
General Information
Access Information
Assignment Attributes
Role Membership
Schedule
Manage Roles > Create Role > Role Membership
You can add or remove members that are associated with the role. Select the member in the
Add...
Remove
Select
User Name
Business Unit
Erica Carr
JK Enterprises
Page 1 of 1
Total: 1 Displayed: 1 Selected: 0
< Back
Next >
Finish
Cancel

4. Click Finish. Click Return to the list of Roles I was working with.







5. Repeat steps 2 through 4 to create 5 more static roles (these roles do not have any members initially):
    a. System Account Owner with a Business unit of JK Enterprises
    b. Finance Employees with Business unit of Finance.
    c. Asset Handling and Disposition with Business unit of Finance.

       Check the Enable access for this role check box. Also, check the Show this role as a common access check box. These settings allow users to request membership in the roles as an access.

    d. Booking and Ledgers with Business unit of Finance.

       Check the Enable access for this role check box. Also, check the Show this role as a common access check box.

    e. Comparison and Review with Business unit of Finance.

       Check the Enable access for this role check box. Also, check the Show this role as a common access check box.

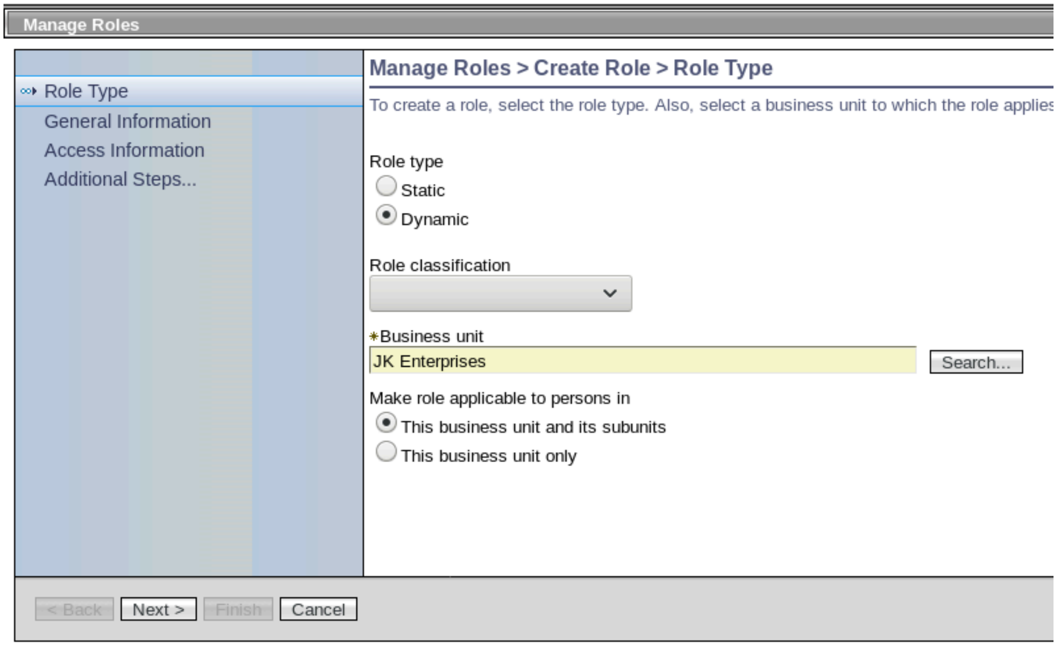
Create | Change | Delete | Transfer | Export Access Data | Import Access Data | Enable Access | Disable Access | Refresh

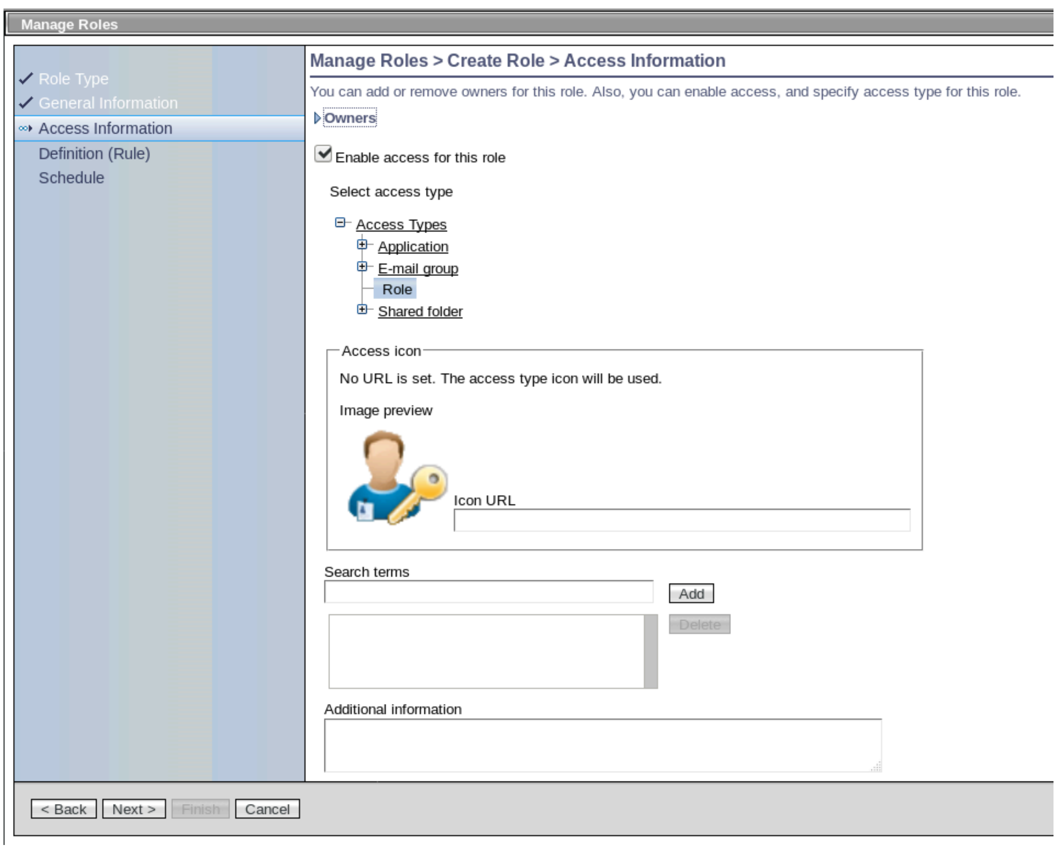
Select	Name	Description	Business ...	Role ...	Access Status	Access Type
☐	Asset Handling and Disposition	Organizational Role for Asset Handling and Disposition	Finance	Static	Common Access Enabled	Role
☐	Booking and Ledgers	Organizational Role for Booking and Ledgers	Finance	Static	Common Access Enabled	Role
☐	Comparison and Review	Organizational Role for Comparison and Review	Finance	Static	Access Enabled	Role
☐	Finance Employees	Organizational Role for Finance	Finance	Static	Access Enabled	Role
☐	ITIM Administrators	Predefined system administrator role.	JK Enterprises	Static	Access Disabled	
☐	JKE System Admin	Organizational Role for System Administrators	JK Enterprises	Static	Access Enabled	Role
☐	System Account Owner	Organizational Role for System Account Owner	JK Enterprises	Static	Access Enabled	Role

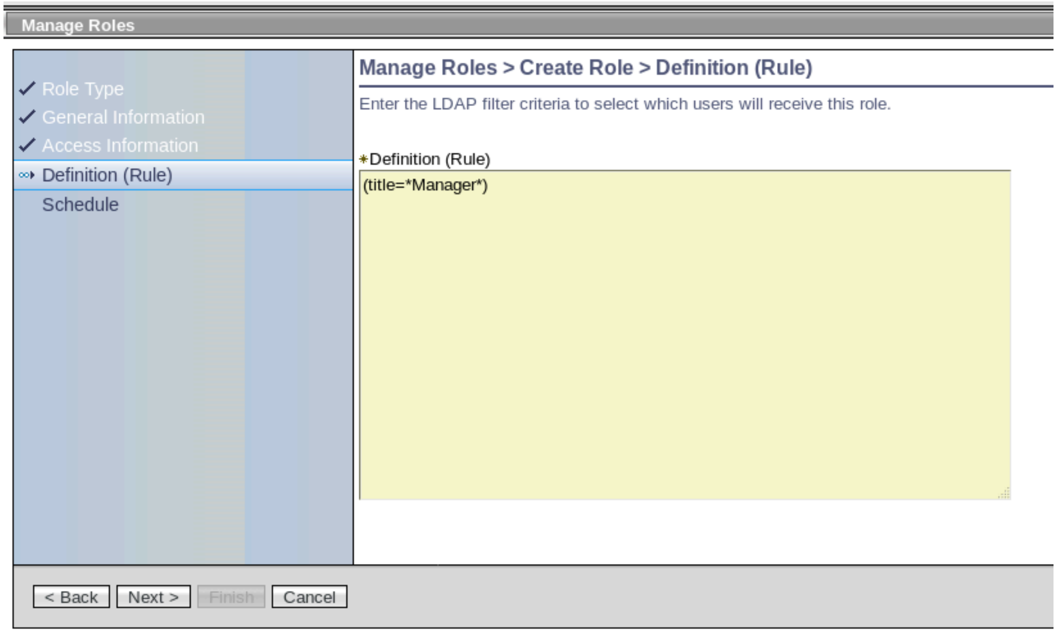
Page 1 of 1 | Total: 7 Displayed: 7 Selected: 0

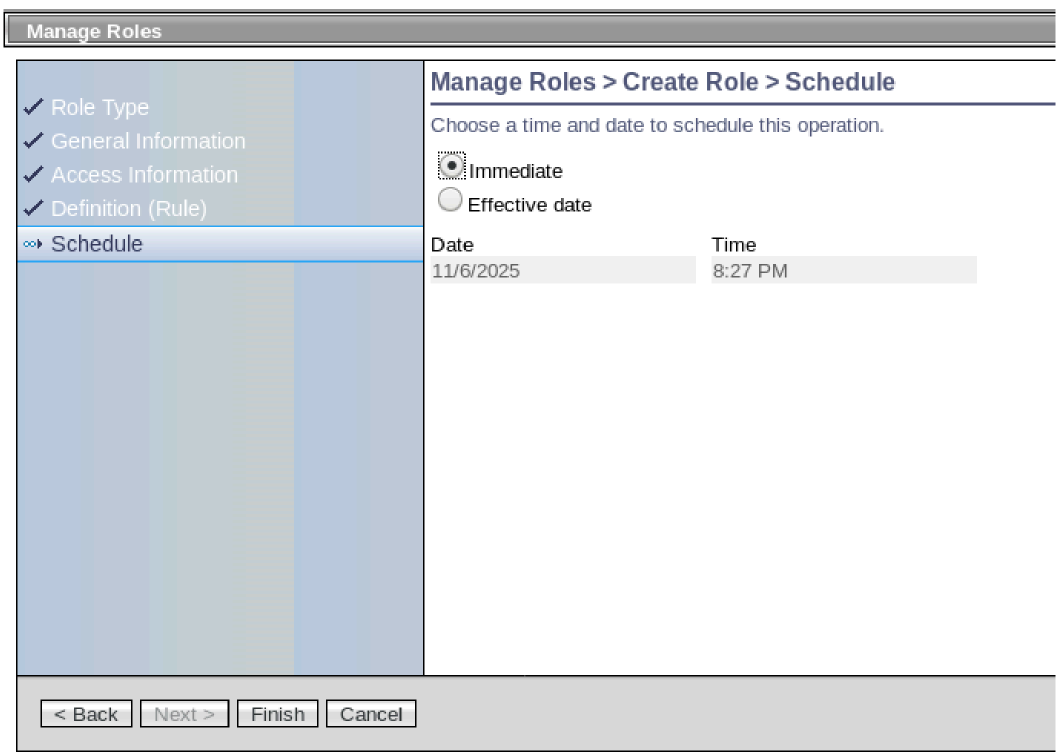
Creating Dyanamic organizational roles

1. Create another role, this time choose the Dynamic role type.
2. Complete the Create Role form with the following information:

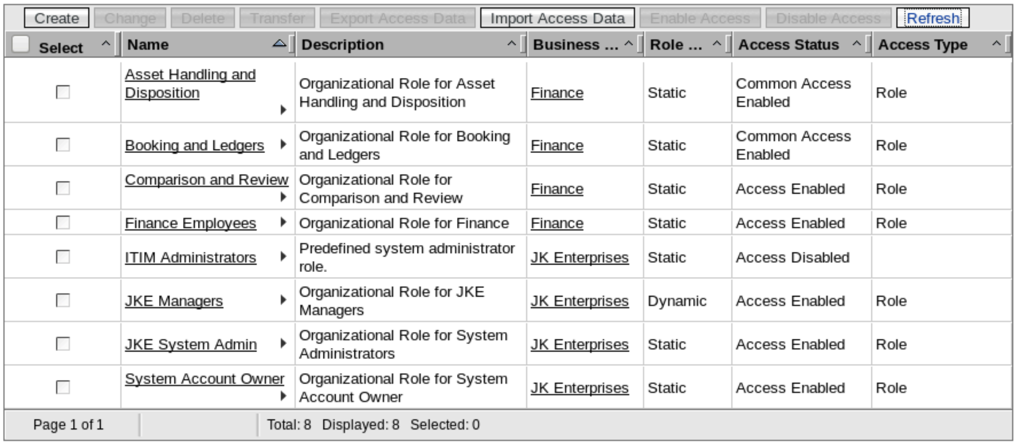

Manage Roles
Role Type
General Information
Access Information
Additional Steps...
Manage Roles > Create Role > Role Type
To create a role, select the role type. Also, select a business unit to which the role applies
Role type
Static
Dynamic
Role classification
*Business unit
JK Enterprises
Search...
Make role applicable to persons in
This business unit and its subunits
This business unit only
< Back
Next >
Finish
Cancel


Manage Roles
Role Type
General Information
Access Information
Definition (Rule)
Schedule
Manage Roles > Create Role > Access Information
You can add or remove owners for this role. Also, you can enable access, and specify access type for this role.
Owners
Enable access for this role
Select access type
Access Types
Application
E-mail group
Role
Shared folder
Access icon
No URL is set. The access type icon will be used.
Image preview
Icon URL
Search terms
Add
Delete
Additional information
< Back
Next >
Finish
Cancel

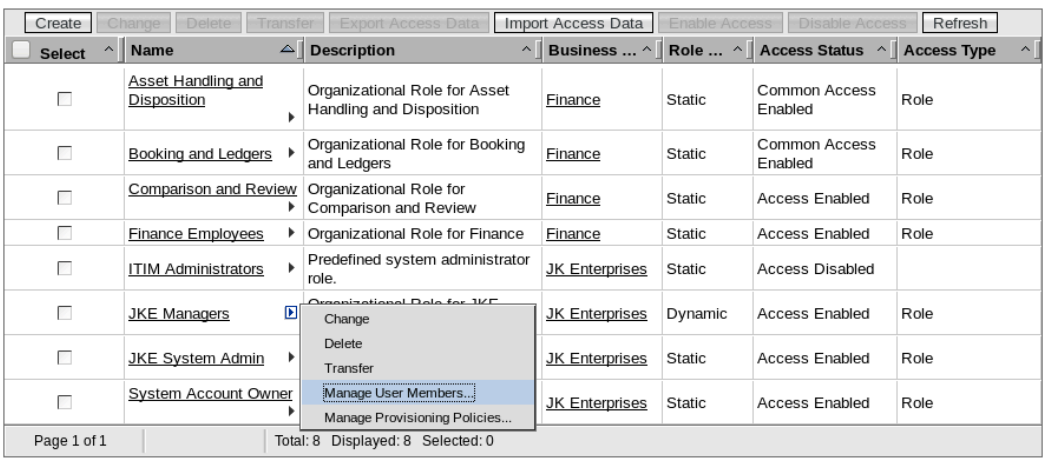

Manage Roles
Role Type
General Information
Access Information
Definition (Rule)
Schedule
Manage Roles > Create Role > Definition (Rule)
Enter the LDAP filter criteria to select which users will receive this role.
*Definition (Rule)
(title=*Manager*)
< Back
Next >
Finish
Cancel


Manage Roles
Role Type
General Information
Access Information
Definition (Rule)
Schedule
Manage Roles > Create Role > Schedule
Choose a time and date to schedule this operation.
Immediate
Effective date
Date
11/6/2025
Time
8:27 PM
< Back
Next >
Finish
Cancel

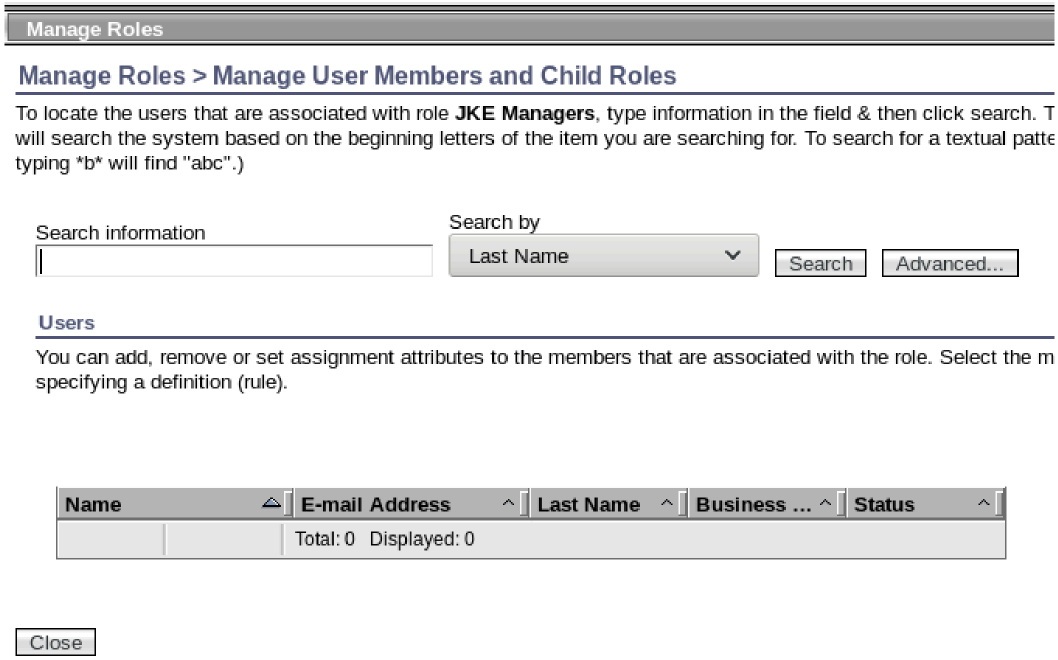
3. Click Finish.
4. On the Home tab, click Manage Roles and refresh the list.



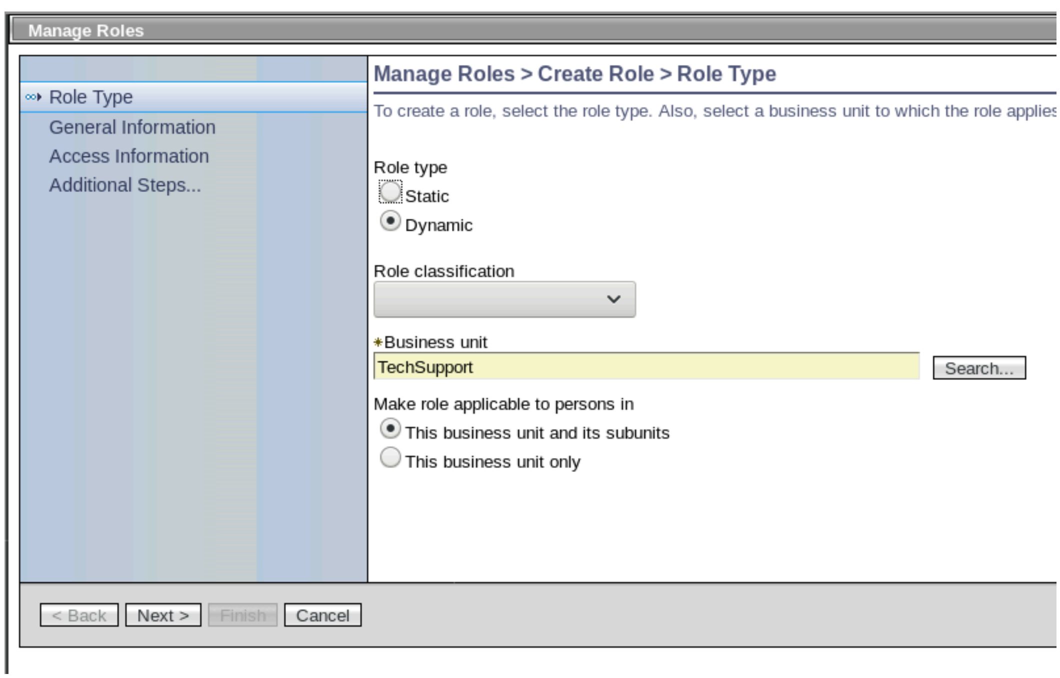
5. Click the arrow to the right of the JKE Managers role and click Manage User Members.



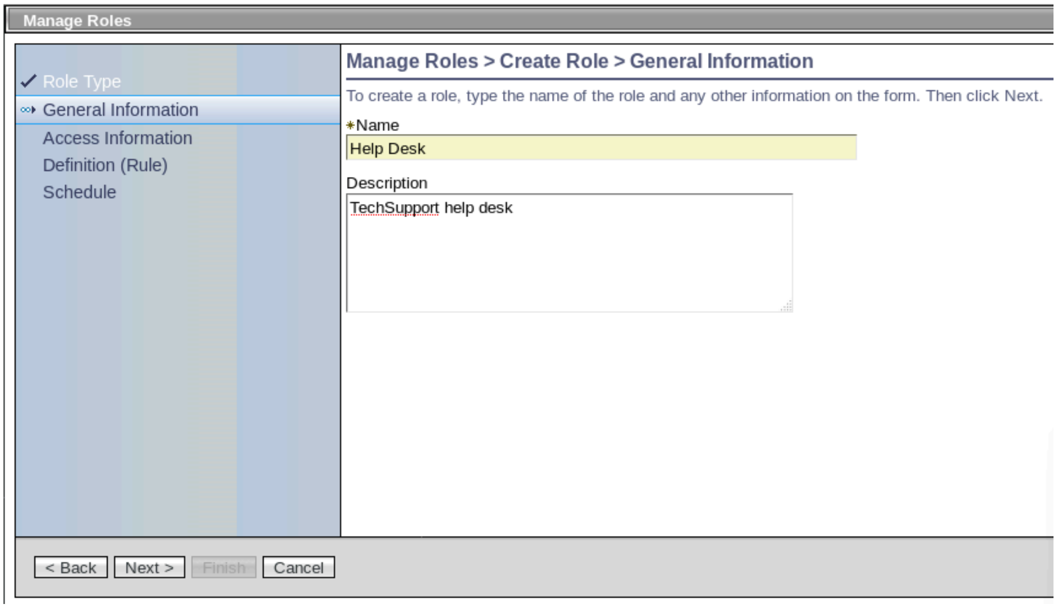
6. Verify that the users in this dynamic role have manager in their title by viewing the Business Information section.

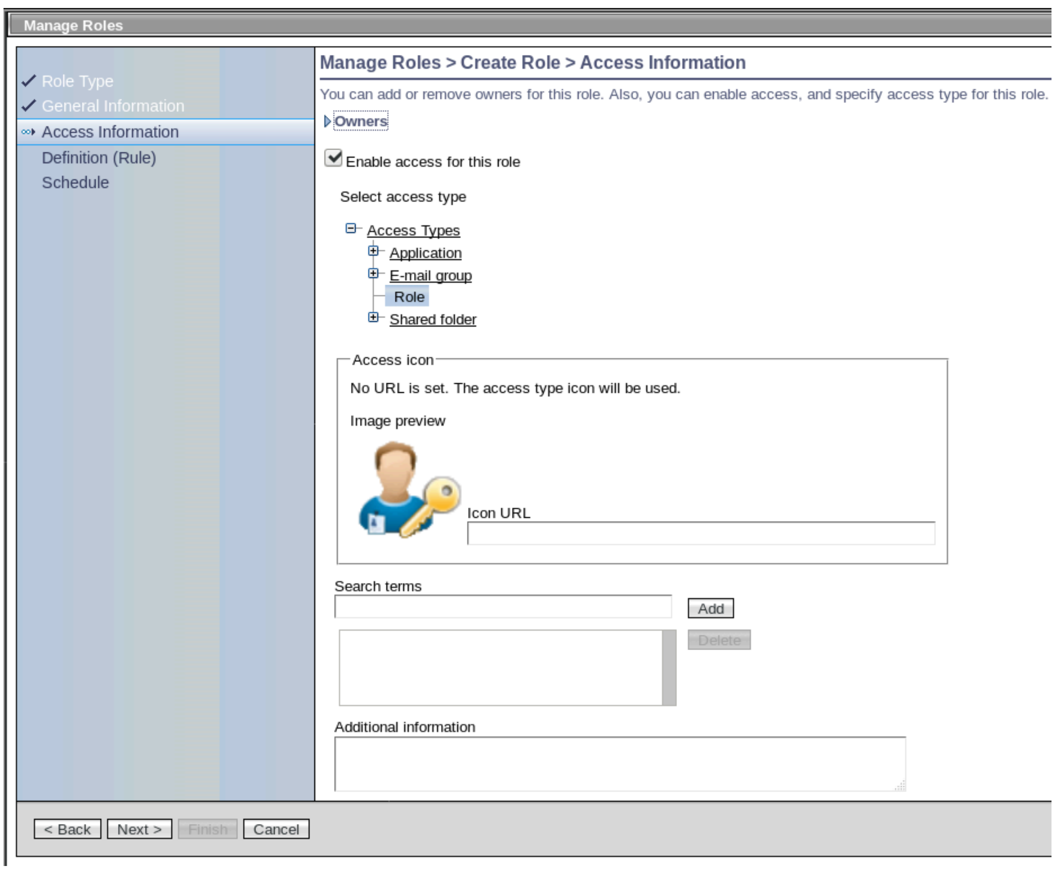


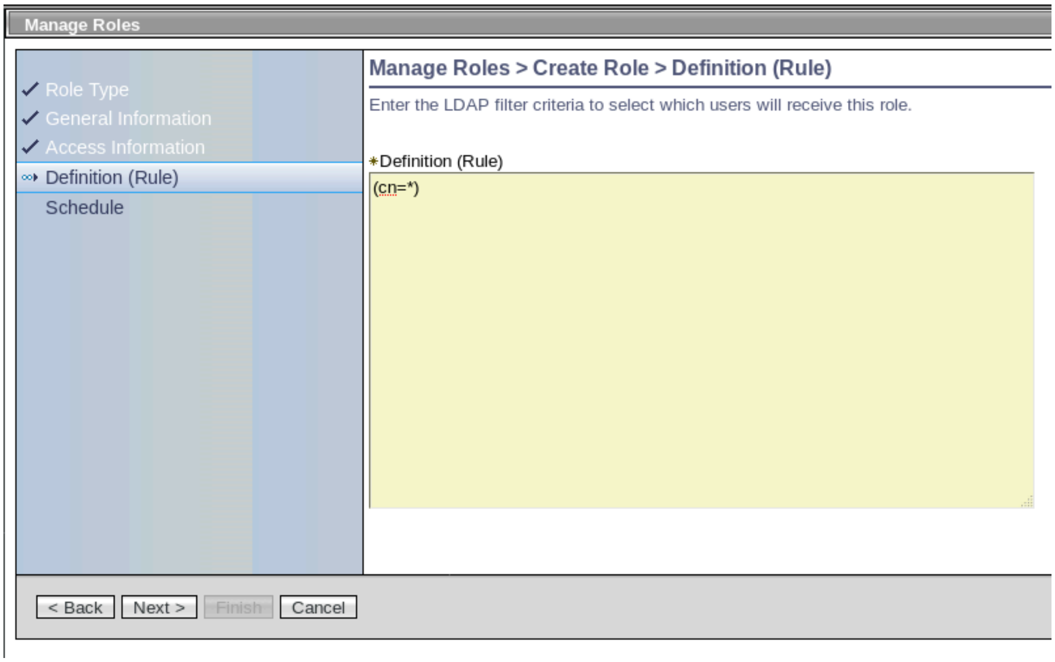
7. Create another Dynamic role
8. Complete the form with the following information:



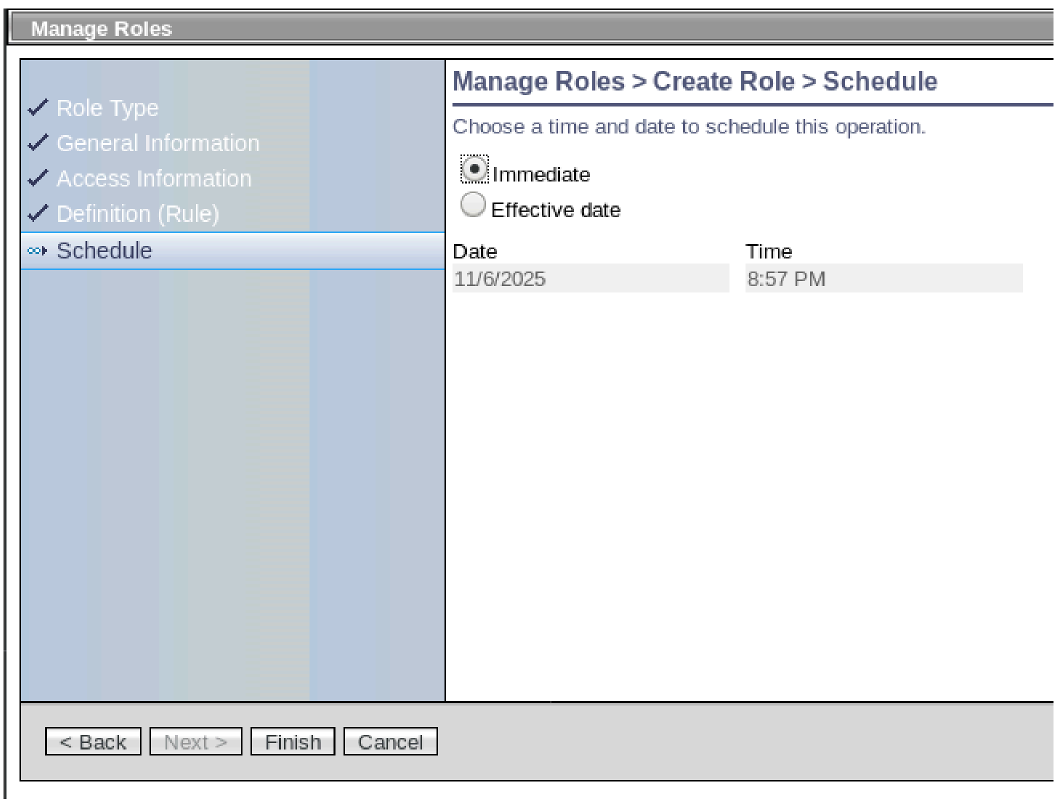
23162171019







Manage Roles
Role Type
General Information
Access Information
Definition (Rule)
Schedule
Manage Roles > Create Role > Definition (Rule)
Enter the LDAP filter criteria to select which users will receive this role.
*Definition (Rule)
(cn=*)
< Back
Next >
Finish
Cancel



Manage Roles
Role Type
General Information
Access Information
Definition (Rule)
Schedule
Manage Roles > Create Role > Schedule
Choose a time and date to schedule this operation.
Immediate
Effective date
Date
11/6/2025
Time
8:57 PM
< Back
Next >
Finish
Cancel

Manage Roles

Manage Roles > Create Role > Success

You successfully submitted the following:
Operation: **Add**
Dynamic Role Name: **Help Desk**
Run: **Immediate**

The changes might take a few minutes to take effect.

Other Tasks

Return to the list of roles I was working with

View my request

Close

Create | Change | Delete | Transfer | Export Access Data | Import Access Data | Enable Access | Disable Access | Refresh

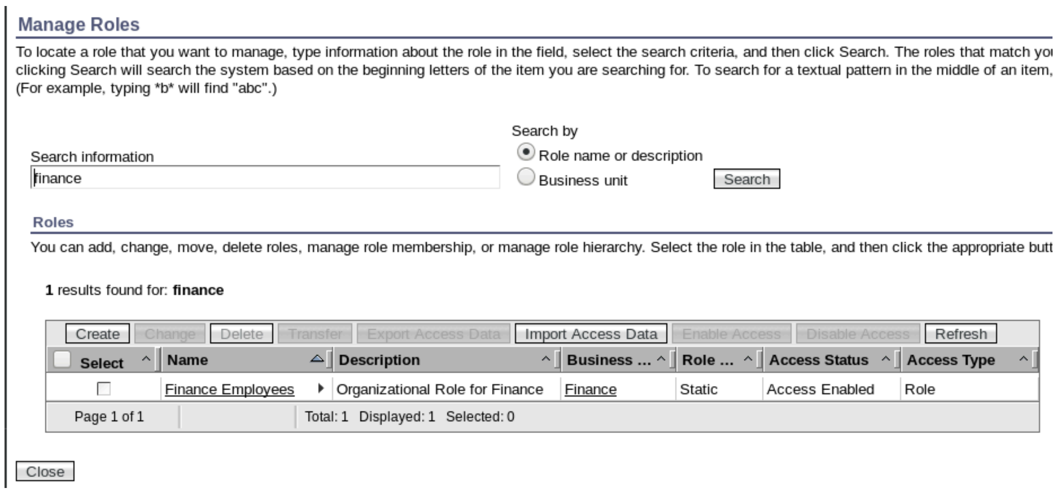
Select	Name	Description	Business ...	Role ...	Access Status	Access Type
	Asset Handling and Disposition	Organizational Role for Asset Handling and Disposition	Finance	Static	Common Access Enabled	Role
	Booking and Ledgers	Organizational Role for Booking and Ledgers	Finance	Static	Common Access Enabled	Role
	Comparison and Review	Organizational Role for Comparison and Review	Finance	Static	Access Enabled	Role
	Finance Employees	Organizational Role for Finance	Finance	Static	Access Enabled	Role
	Help Desk	TechSupport help desk	TechSupport	Dynamic	Access Enabled	
	ITIM Administrators	Predefined system administrator role.	JK Enterprises	Static	Access Disabled	
	JKE Managers	Organizational Role for JKE Managers	JK Enterprises	Dynamic	Access Enabled	Role
	JKE System Admin	Organizational Role for System Administrators	JK Enterprises	Static	Access Enabled	Role
	System Account Owner	Organizational Role for System Account Owner	JK Enterprises	Static	Access Enabled	Role

Page 1 of 1 Total: 9 Displayed: 9 Selected: 0

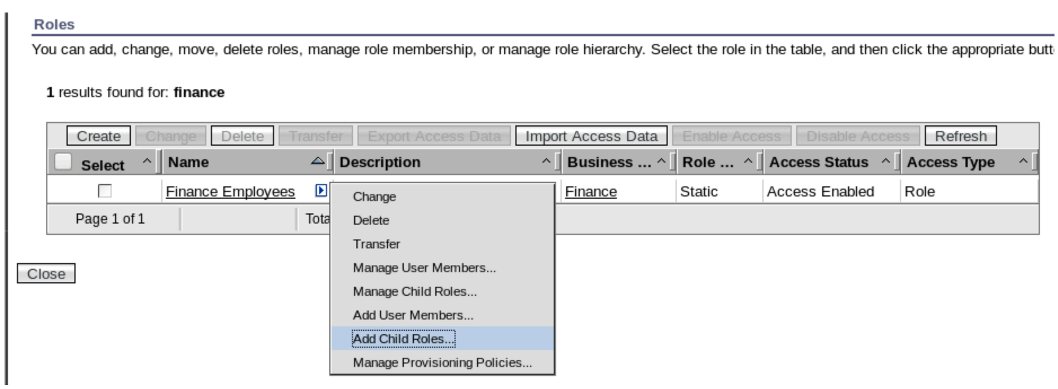
Exercise 4 : Creating child role assignments

In this exercise, you make the three finance department roles children of the Finance role.

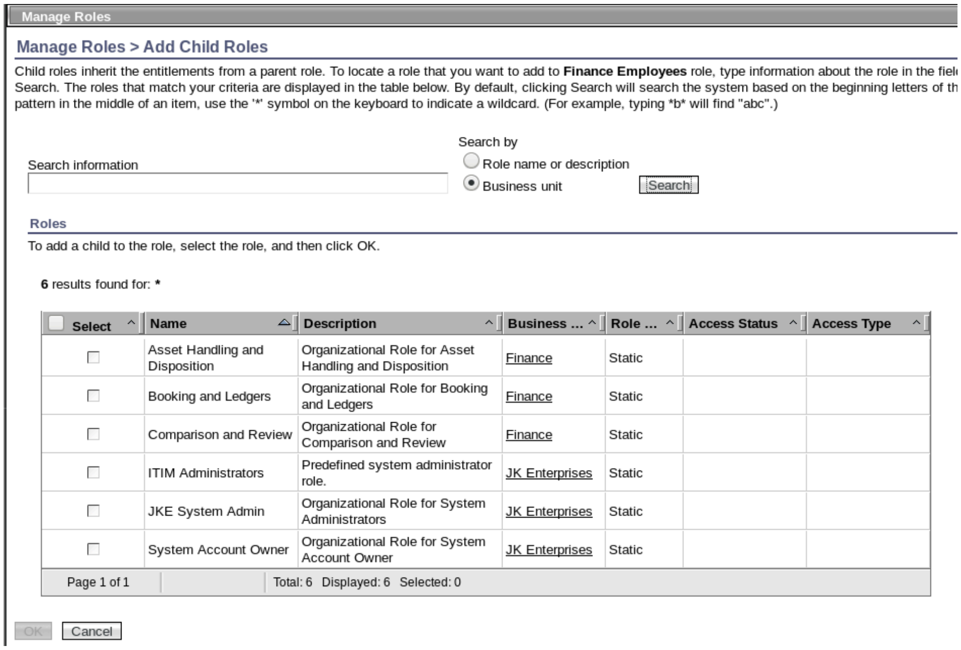
1. On the Home tab, click Manage Roles.
2. In the Search Information box, type Finance* to find the role you created in the previous exercise.
3. Click Search. The result should be a list that contains your Finance Employees role.



4. Click the arrow to the right of Finance Employees and select Add Child Roles.



5. Search for all the roles in the business unit of Finance.



Manage Roles

Manage Roles > Add Child Roles

Child roles inherit the entitlements from a parent role. To locate a role that you want to add to **Finance Employees** role, type information about the role in the fiel Search. The roles that match your criteria are displayed in the table below. By default, clicking Search will search the system based on the beginning letters of th pattern in the middle of an item, use the '*' symbol on the keyboard to indicate a wildcard. (For example, typing *b* will find "abc".)

Search information

Search by

Role name or description

Business unit

Search

Roles

To add a child to the role, select the role, and then click OK.

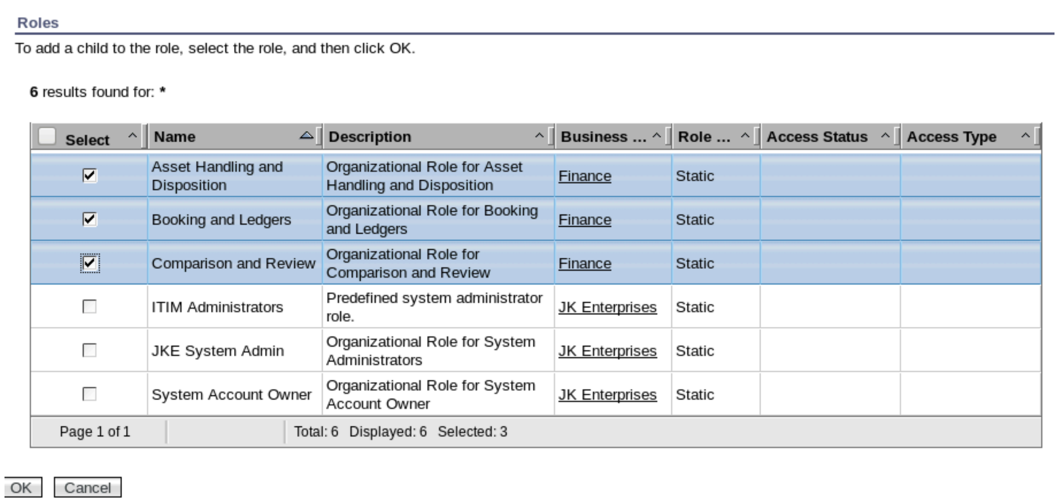
6 results found for: *

Select	Name	Description	Business ...	Role ...	Access Status	Access Type
☐	Asset Handling and Disposition	Organizational Role for Asset Handling and Disposition	Finance	Static		
☐	Booking and Ledgers	Organizational Role for Booking and Ledgers	Finance	Static		
☐	Comparison and Review	Organizational Role for Comparison and Review	Finance	Static		
☐	ITIM Administrators	Predefined system administrator role.	JK Enterprises	Static		
☐	JKE System Admin	Organizational Role for System Administrators	JK Enterprises	Static		
☐	System Account Owner	Organizational Role for System Account Owner	JK Enterprises	Static		

Page 1 of 1 Total: 6 Displayed: 6 Selected: 0

OK Cancel

6. Select the three finance child roles:
   - Asset Handling and Disposition
   - Booking and Ledgers
   - Comparison and Review



Roles

To add a child to the role, select the role, and then click OK.

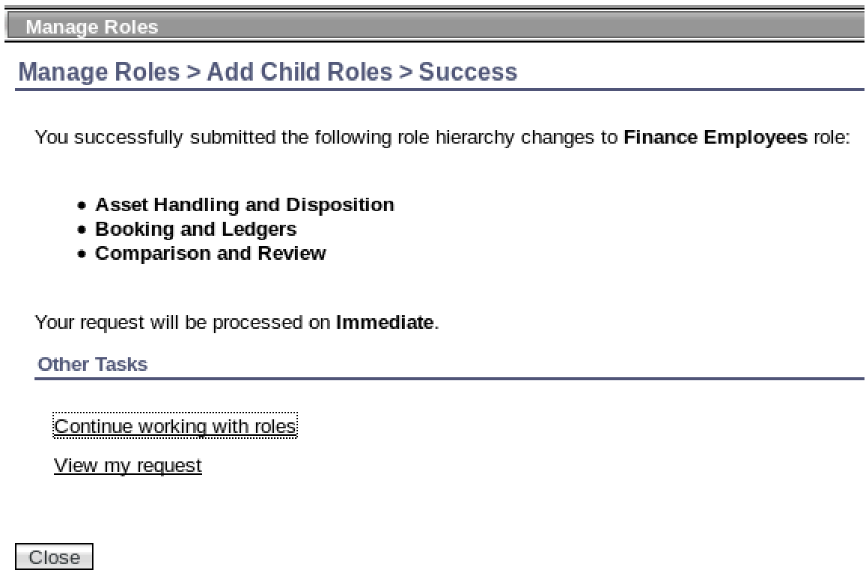
6 results found for: *

Select	Name	Description	Business ...	Role ...	Access Status	Access Type
☑	Asset Handling and Disposition	Organizational Role for Asset Handling and Disposition	Finance	Static		
☑	Booking and Ledgers	Organizational Role for Booking and Ledgers	Finance	Static		
☑	Comparison and Review	Organizational Role for Comparison and Review	Finance	Static		
☐	ITIM Administrators	Predefined system administrator role.	JK Enterprises	Static		
☐	JKE System Admin	Organizational Role for System Administrators	JK Enterprises	Static		
☐	System Account Owner	Organizational Role for System Account Owner	JK Enterprises	Static		

Page 1 of 1 Total: 6 Displayed: 6 Selected: 3

OK Cancel

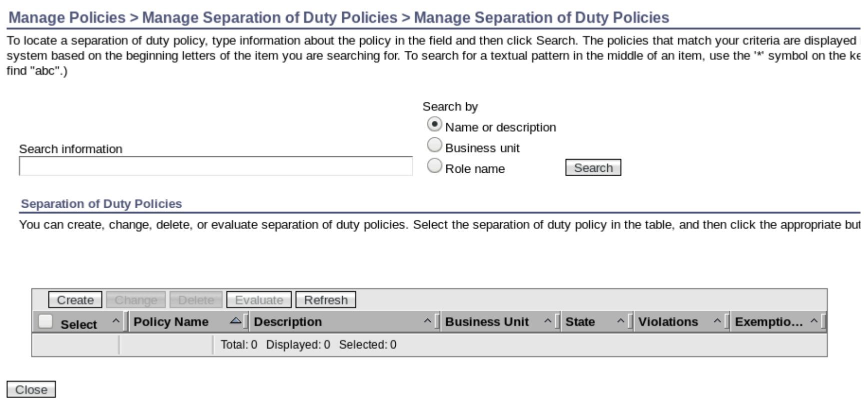
7. Click OK.
8. Select the Immediate radio button and click Submit.



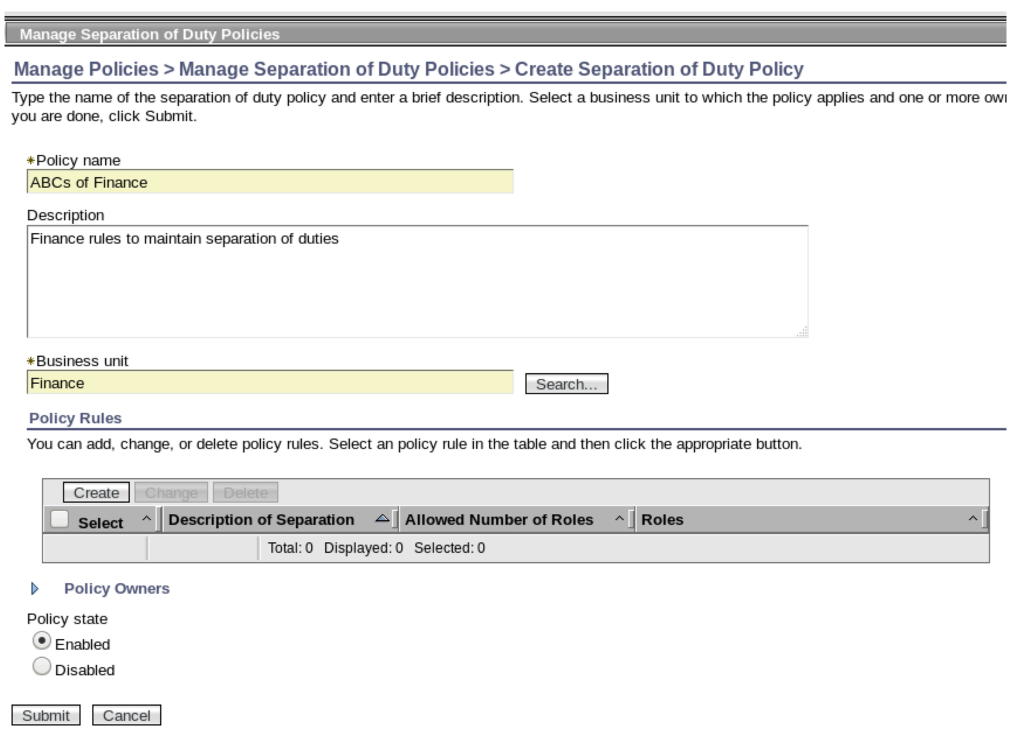
Exercise 5 : Creating a separation of duty policy

JK Enterprises wants to ensure that they adhere to the best practices of separation of duty in their finance department. In this exercise, you ensure that in the finance department, no user can have more than one of these roles: Asset Handling and Disposition, Booking and Ledgers, Comparison and Review.

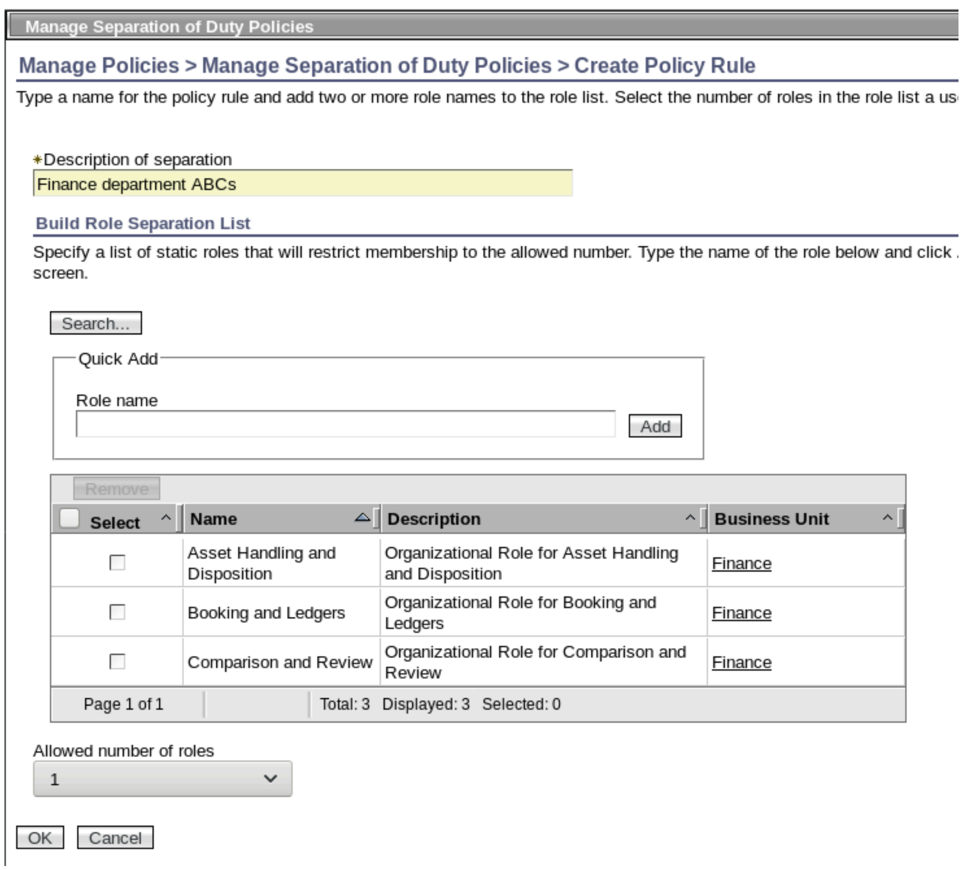
1. On the Home tab, go to Manage Policies > Manage Separation of Duty Policies.
2. Click Create.



3. Create the policy with the following information:



4. In the Policy Rules section, click Create to create a policy rule with the following information:
5. Click Search in the Build Role Seperation List section.
6. Search for roles in the business unit of Finance:
   - Asset Handling and Disposition
   - Booking and Ledgers
   - Comparison and Review
7. After you select the three roles, select the number of allowed roles. In this case, you allow only one role.



8. Click OK.
9. Under Policy Owners > User Policy Owners, click Add, on next screen in search information type Sue Thomas , select full name in Search By. Click on search. Select Sue Thomas and click Ok. Sue, as the manager of the finance department, must approve any exceptions.

Policy Owners

Role Policy Owners

Specify the roles that are the owners of this policy.

Add Remove

Select	Role Name	Role Description	Business Unit
		Total: 0 Displayed: 0 Selected: 0	

User Policy Owners

Specify the users that are the owners of this policy.

Add Remove

Select	Full Name	E-mail Address	Last Name	Business Unit
		Total: 0 Displayed: 0 Selected: 0		

Policy state

- Enabled
- Disabled

Submit Cancel

Manage Policies > Manage Separation of Duty Policies > Select a User

To locate the users that you want to add as owners of this separation of duty policy, type information about the user in the
the table below. By default, clicking Search will search the system based on the beginning letters of the item you are sea
keyboard to indicate a wildcard. (For example, typing *b* will find "abc".)

Search information: sue thomas

Search by: Full name

Search Advanced...

Users

1 results found for: **sue thomas**

Select	Name	E-mail Ad...	Last Name	Business ...	Status
☑	Sue Thomas	sthomas@jk...	Thomas	Finance	Active
Page 1 of 1		Total: 1 Displayed: 1 Selected: 1			

OK Cancel

Manage Policies > Manage Separation of Duty Policies > Success

You successfully submitted a request for a new separation of duty policy.

- Policy name: **ABCs of Finance**
- Description: **Finance rules to maintain separation of duties**
- State: **Enabled**
- Business Unit: **Finance**

Policy Rules:

- Finance department ABCs

Other Tasks

View my request

Manage roles

Manage provisioning policies

Continue working with separation of duty policies

Close

10. Click Submit.
11. Log out of the IBM Security Identity Manager Administrative Console. Close Firefox.

Exercise 6 : Approving a separation of duty policy violation

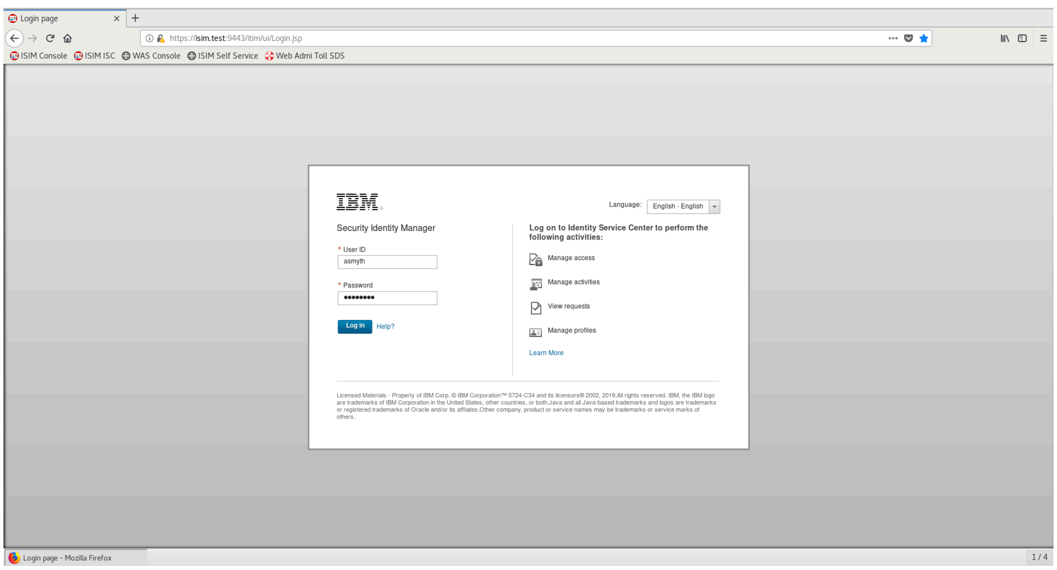
Alice Smyth is covering for another finance employee who is out on temporary medical leave. She requires access to several roles that violate a separation of duty policy. Alice requests role access through the IBM Security Identity Manager Identity Service Center (ISC) console.

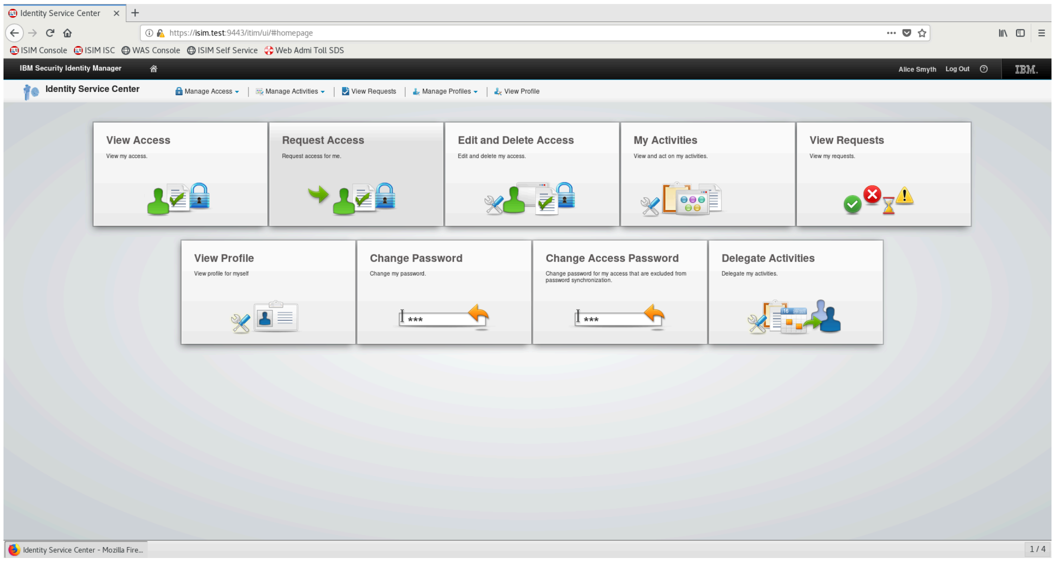
1. Restart Firefox everytime you switch ISIM Console to ISC console. Open Firefox Enter the URL for

   the Identity Service Center (ISC) in Firefox:

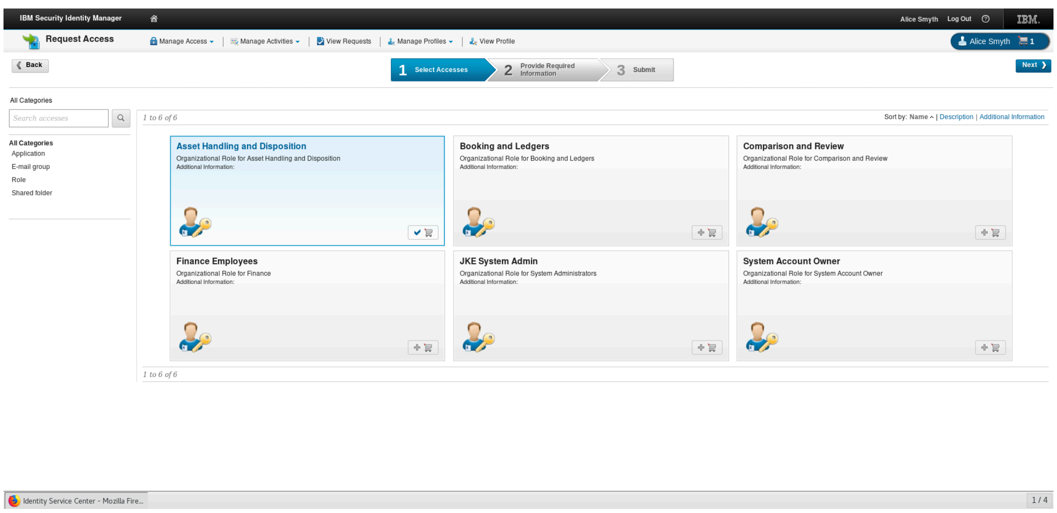
   https://isim.test:9443/itim/ui/Login.jsp or click the bookmark

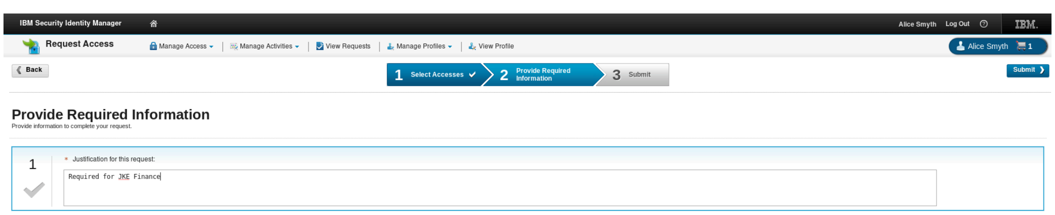
2. Log on as Alice Smyth (asmyth) with password P@ssw0rd.

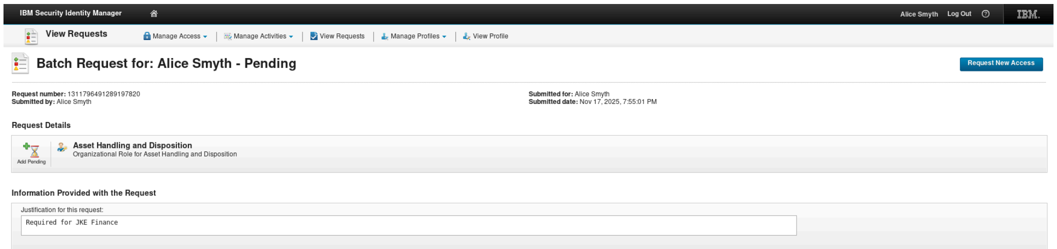




3. Click Request Access to request access to the Asset Handling and Disposition role by Clicking the role and Click Next. Provide justification – Required for JKE Finance and Click Submit.



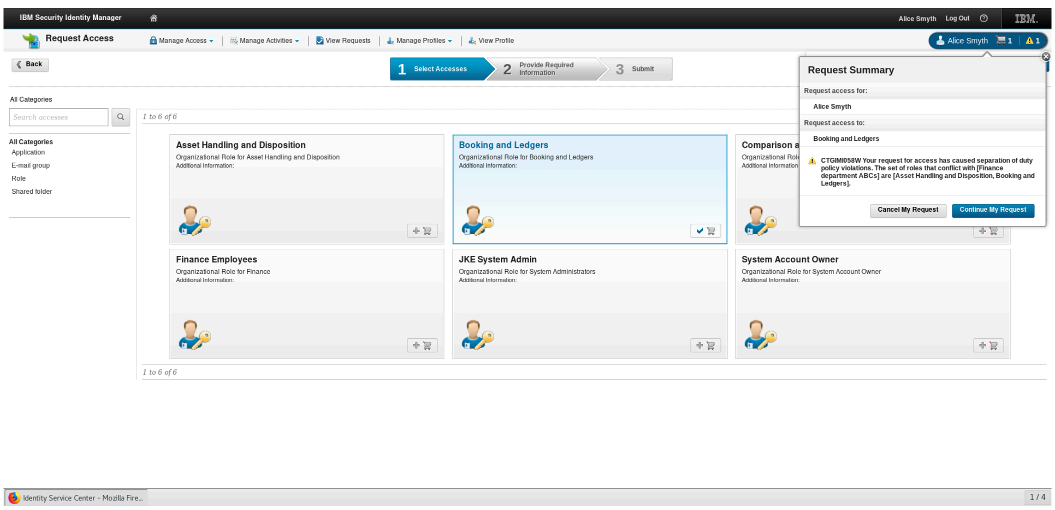




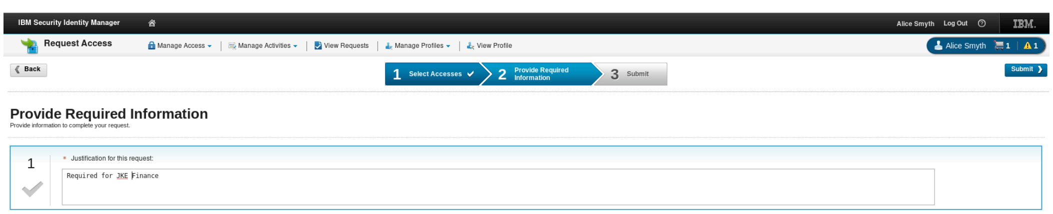
4. Click on Request New Access, Request access to the Booking and Ledgers by Clicking the role.

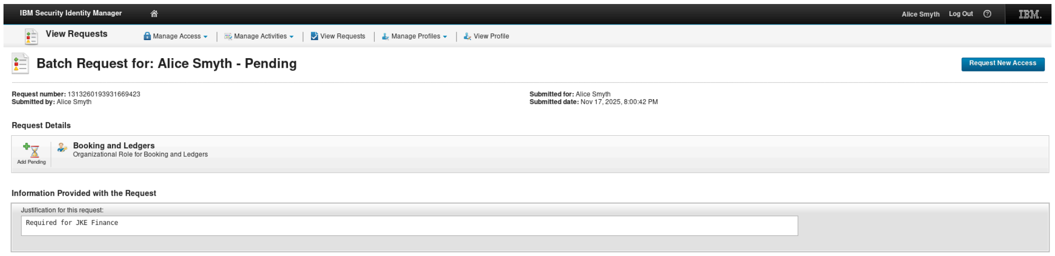
   This action causes a violation for the Finance Department ABCs separation of duty policy. You can see the warning sign

5. Click the Yellow warning sign, you can see the details for the violation.

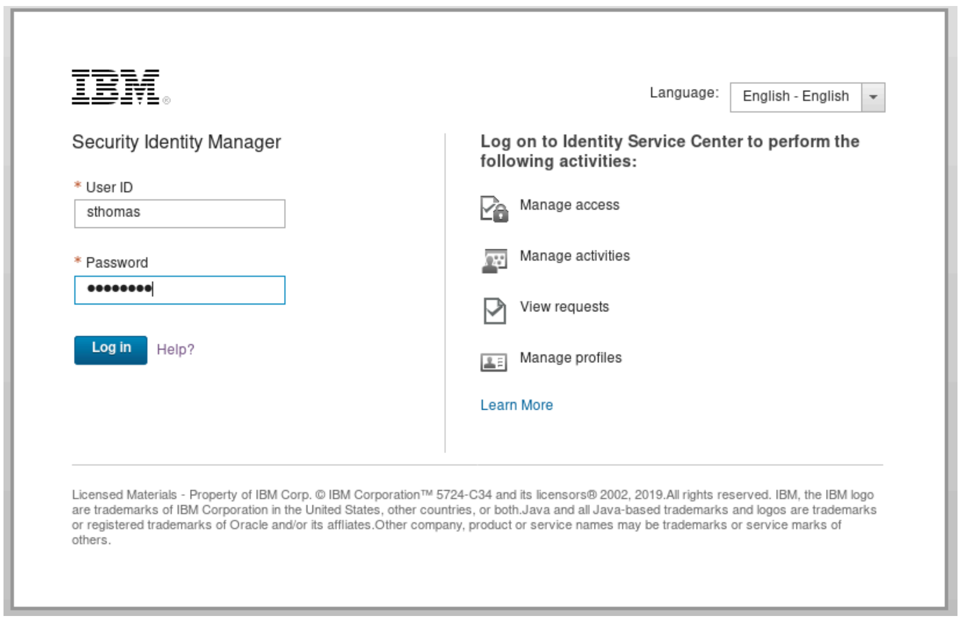


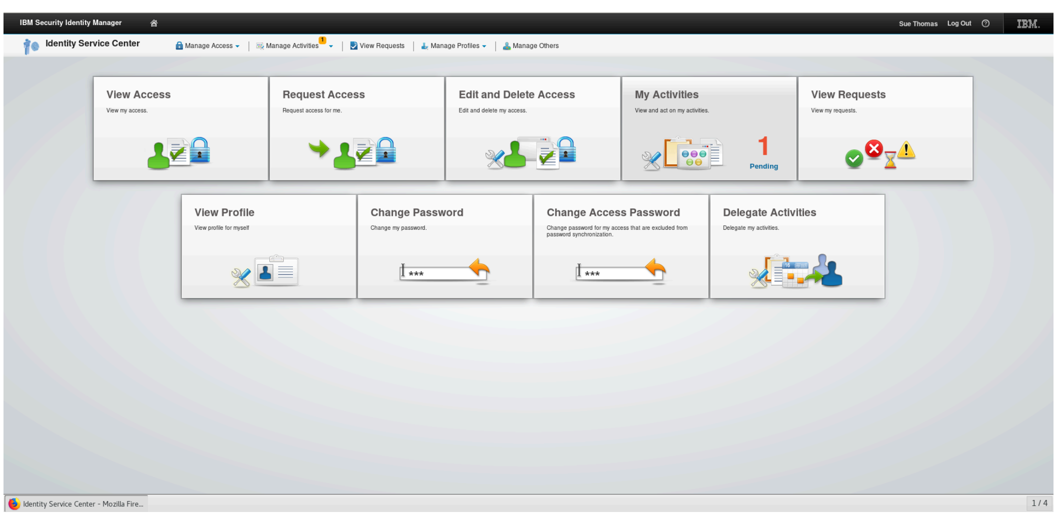
6. Click Continue My Request to request an exception. Provide justification – Required for JKE Finance and Click Submit.



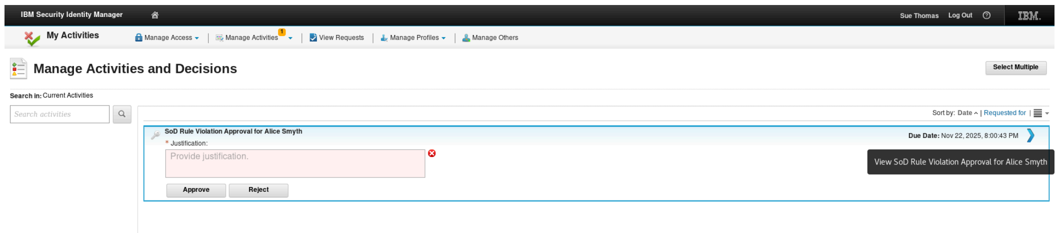


7. Log out of the Identity Service Center.
8. Now, log in to the Identity Service Center as Sue Thomas and approve the separation of duty exception. Log back in as Sue Thomas (sthomas) with password P@ssw0rd.

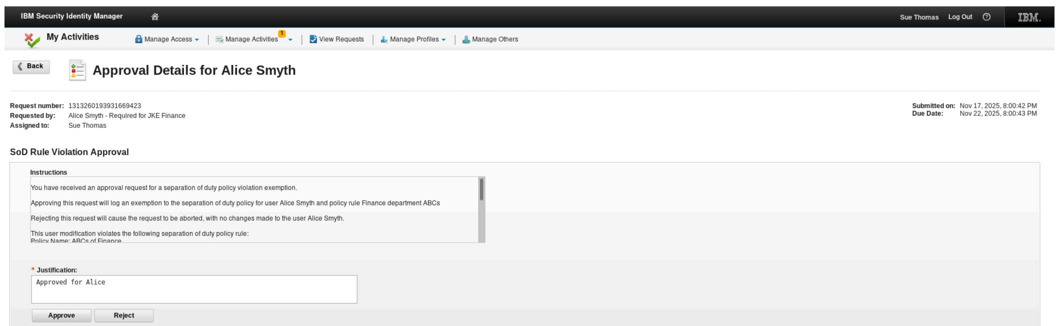


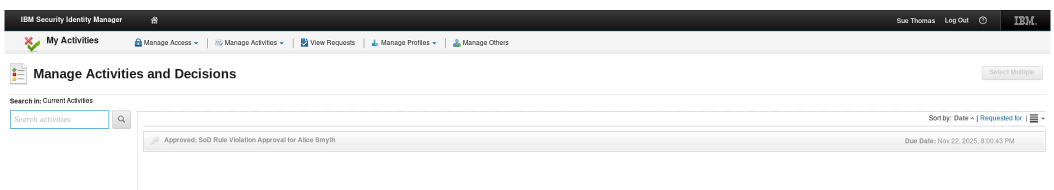


9. Click on My Activities, on the right corner you can see Blue arrow , Click the arrow and you can see the policy violation details.



10. Provide Justification – Approved for Alice. Click Approve and Approve Alice's separation of duty rule violation.





11. Log out of the Self Service console. Close Firefox.