Household Data Model & Restriction Rule Usage

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Problem Statement

 How can the existing <u>standard</u> Sales Cloud functionality be leveraged to model the relationships between individuals and groups of individuals?

Scenario:

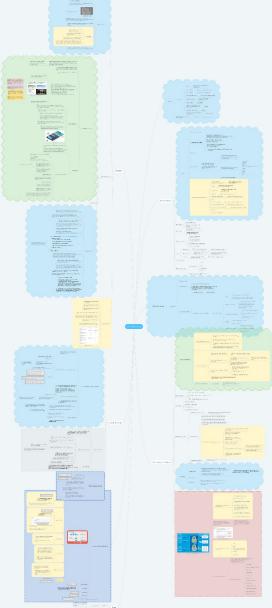
- Universal Properties is a global company that manages apartment units in large metropolitan areas. Apartments managed by UP are typically owned by Landlords who own a portfolio of multiple apartments to let.
- Universal Properties has 300,000 private customers who are often individuals, sharers or small families renting apartments. As part of UP's push to digitize their business, they plan to onboard tenants to a new portal.
- Throughout the lifetime of a tenancy Tenants should be able to raise cases and maintenance requests via the portal.
- User must be able to see their own contracts, as well as contracts that are associated with the household that they are a part of.

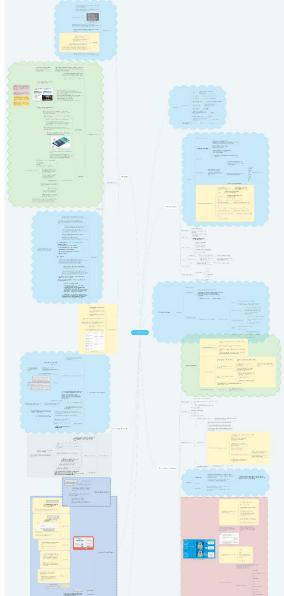
Objects:

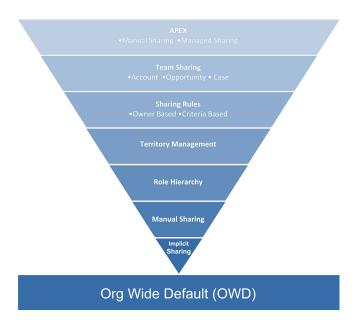
- Account (Business) = Household
- Account (Business) = Corporation (Landlord)
- Person Account = Tenant
- Contact = an Individual
- Opportunity = Deal
- Contract = Lease
- Asset = Apartment
- Case = Problem/Issue/Ticket

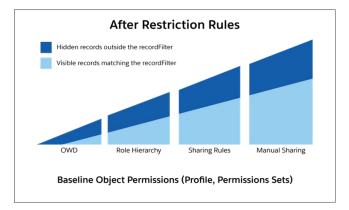
Salesforce Security Model

<u>Mindmap</u> → (click to download)





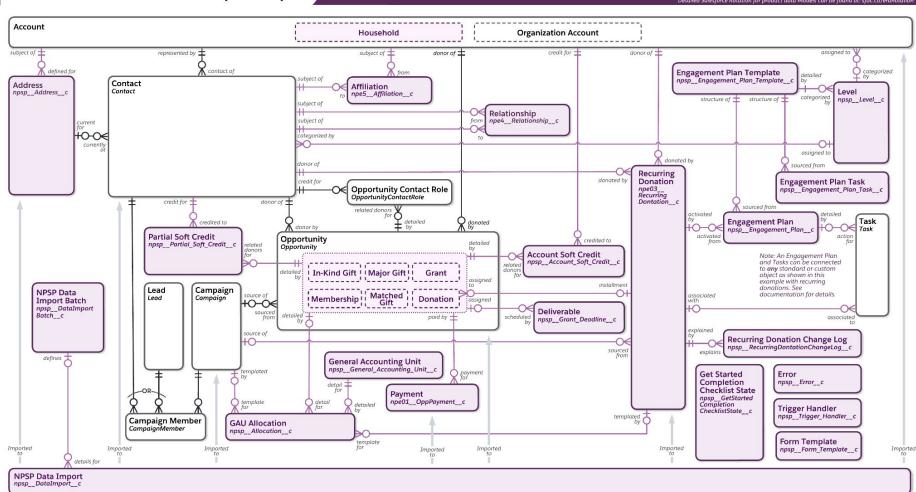




Nonprofit Success Pack (NPSP)

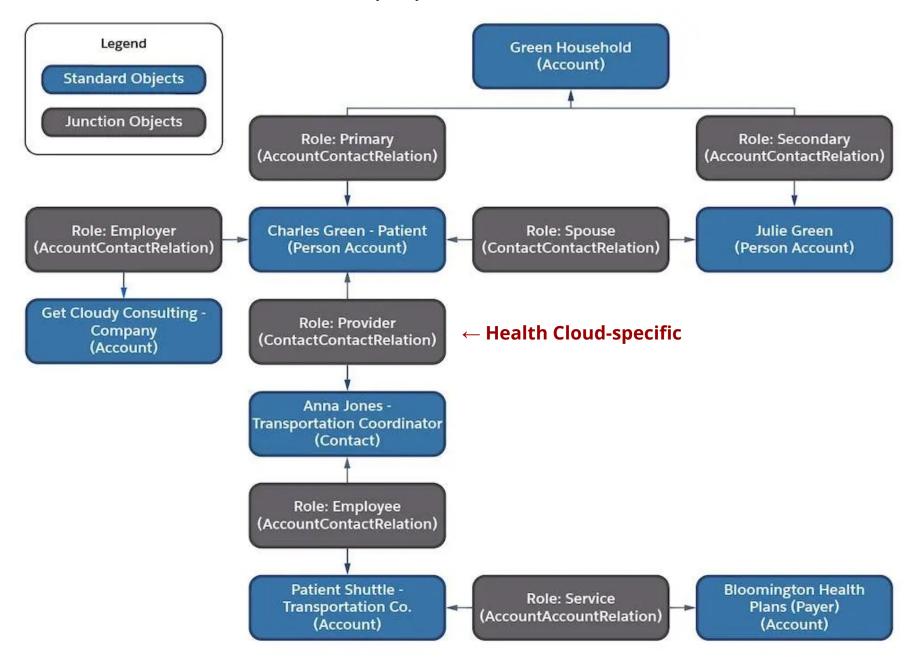




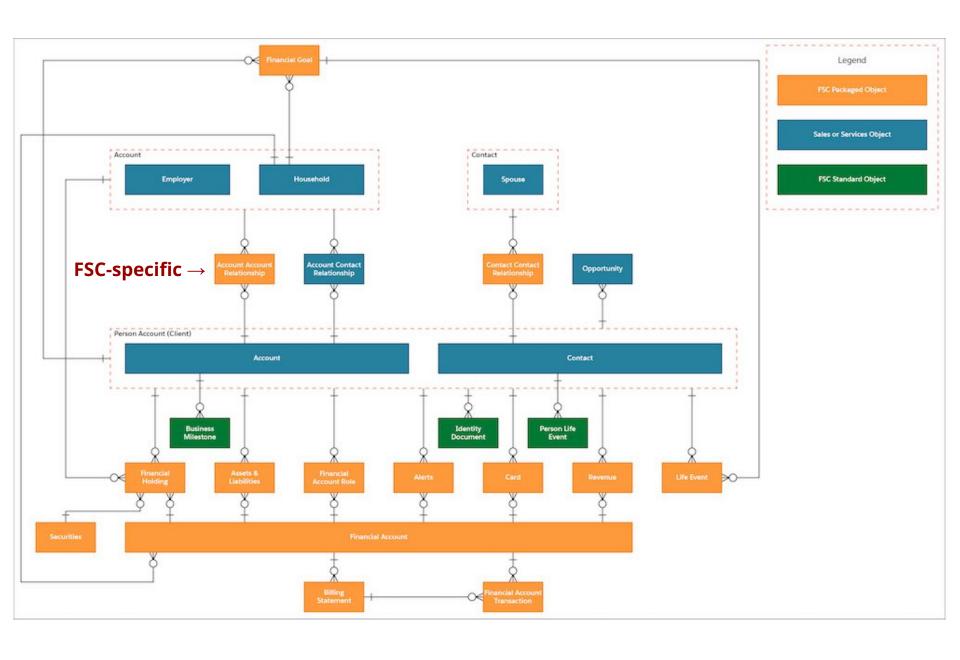


62022 Salesforce - Subject to change without notice

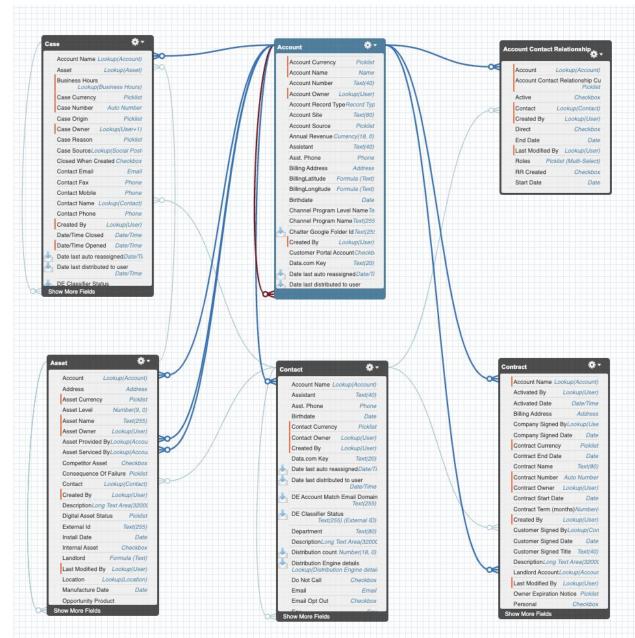
Health Cloud ERD (Simplified)



Financial Services Cloud ERD (Simplified)



Sales Cloud ERD (Abridged)



Key objects for sharing with CC Users:

- Account
- Contact
- Account-Contact Relationship

There is no standard...

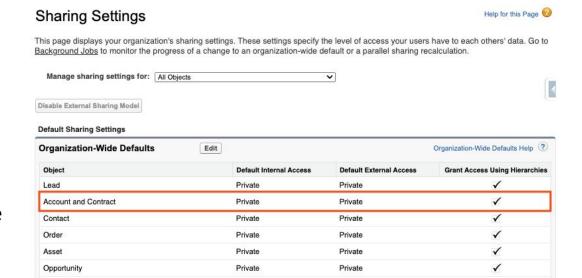
- Account-Account relationship or
- Contact-Contact relationship

...in Sales Cloud

Account & Contract OWD

IMPORTANT: Separate OWDs cannot be defined for Account and Contract

- In many cases in order to decouple the two objects, a custom Contract object is used, which is not always ideal.
- OWDs for External Users can be "Private" or "Controlled by Parent", since the Sharing Sets are based on the Account.



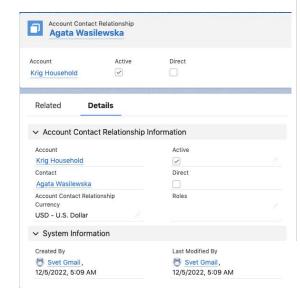


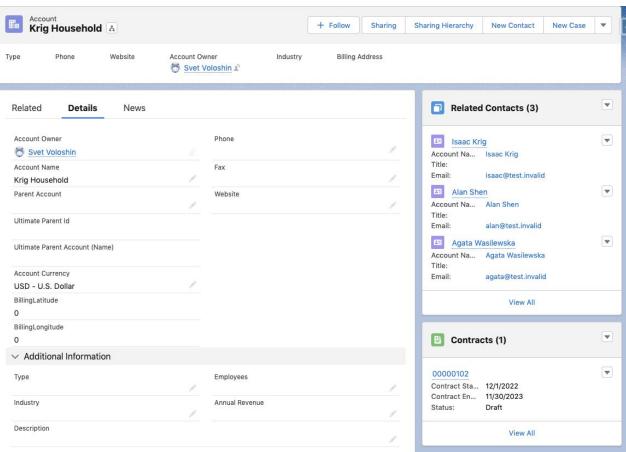
Irrelevant, since we are sharing records with Customer Community Users.



Household Account

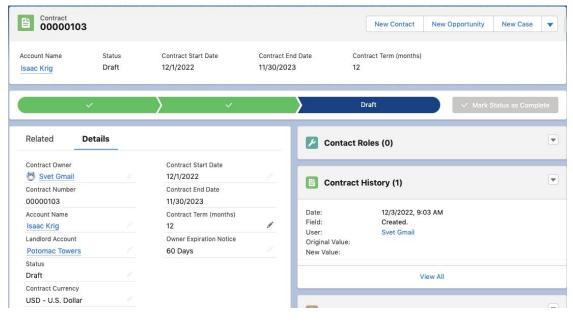
- Not a special secret Salesforce Account Record type
- Standard Business Account
- Person Accounts are associated with it using <u>Account-Contact</u> <u>Relationship</u>





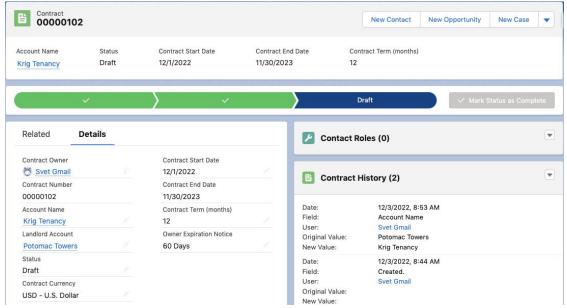


Person Contract vs. Household Contract?



<u>Person Contract</u>: signed with a single person

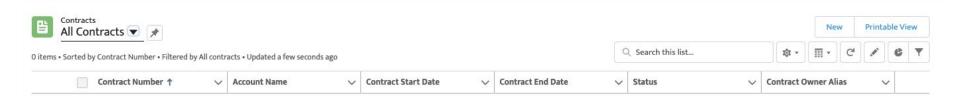
Reason: single tenant, lives by themselves and pays the rent on their own.



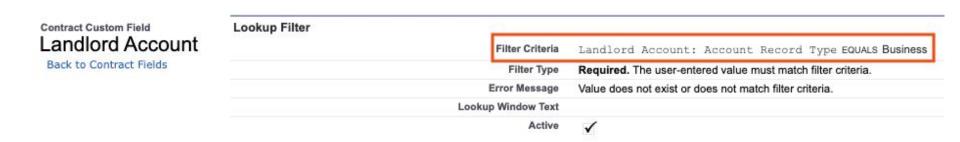
Household Contract: signed with an entire household

Reason: multiple tenants, live together and share the rent payments.

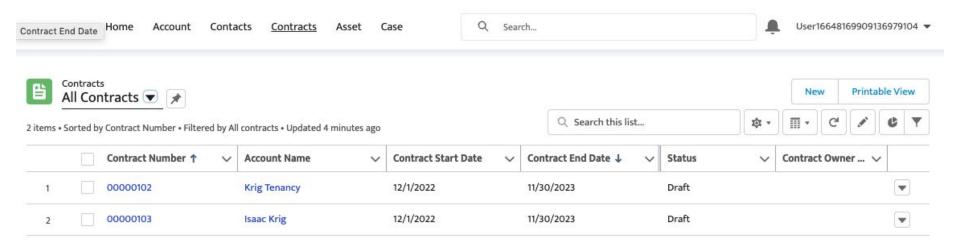
Account Fields on Contract Object



- If one decides to use a custom Account Lookup field on Contract, the Customer Community User will not be able to see their Contracts by default.
- The recommended approach is to use the default Account field.
- Custom Account Lookup field can then be used to show Landlords.
- Additionally one can set the lookup filter to allow only the <u>Business</u>
 <u>Account Record Type</u> to be selected.



Requirements: Contract Visibility in Community Portal



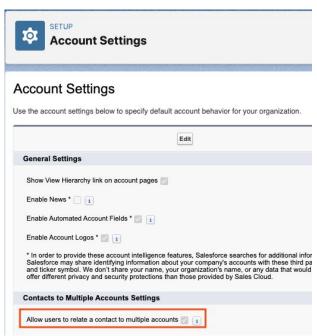
- User must be able to see <u>their own</u> contracts, as well as contracts that are associated with the household that they are a part of.
- The user can see their own contract, because they get access to their own Account record implicitly.
- The user can see contract that is associated with the household that they
 are a part of, because their own Person Account is associated with the
 Household (Business) Account via Account-Contact Relationship.

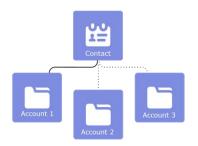
Sharing Sets - Granting access to CC Users

Access Granted						
Action	Object	Access Determined By	Access Level			
Edit Del	Account	User:Contact.RelatedAccount = Account:Id	Read Only			
Edit Del	Asset	User:Contact.RelatedAccount = Asset:Account	Read Only			
Edit Del	Case	User:Contact.RelatedAccount = Case:Account.Parent	Read Only			
Edit Del	Contact	User:Contact.RelatedAccount = Contact:Account	Read Only			
Edit Del	Lease	User:Contact.RelatedAccount = Lease:Householdc	Read Only			

- The <u>only</u> way to grant access to records to Customer Community users is by using <u>Sharing Sets</u>.
- In the screenshot above, we have created Sharing sets on the Account-Contact Relationship object: Contact.RelatedAccount (keyword is "Related")

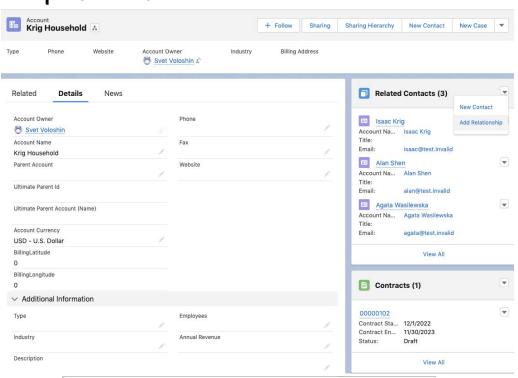
Account-Contact Relationship (ACR)

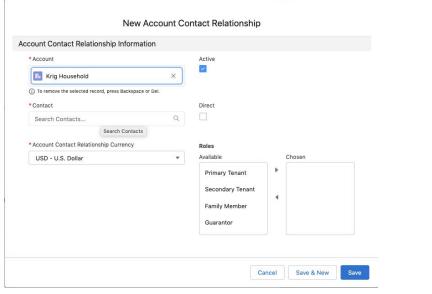




- Step 1: Go to Account Settings and check "Allow users to relate a contact to multiple accounts"
- Step 2: Go to an Account and click on "Add Relationship"
- Step 3: Choose a Contact and select other relevant fields.
- Step 4: Make sure ACR is Active.

IMPORTANT: If ACR is not Active, sharing sets will not work.





Person Account-to-Person Account via ACR

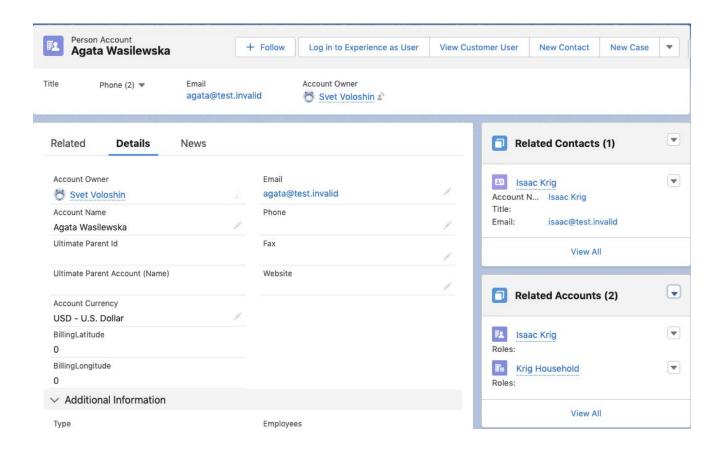
Contacts

- Person accounts can't have direct relationships with contacts.
- You can use Contacts to Multiple Accounts to create indirect relationships between a person account and a contact.

Contacts to Multiple Accounts

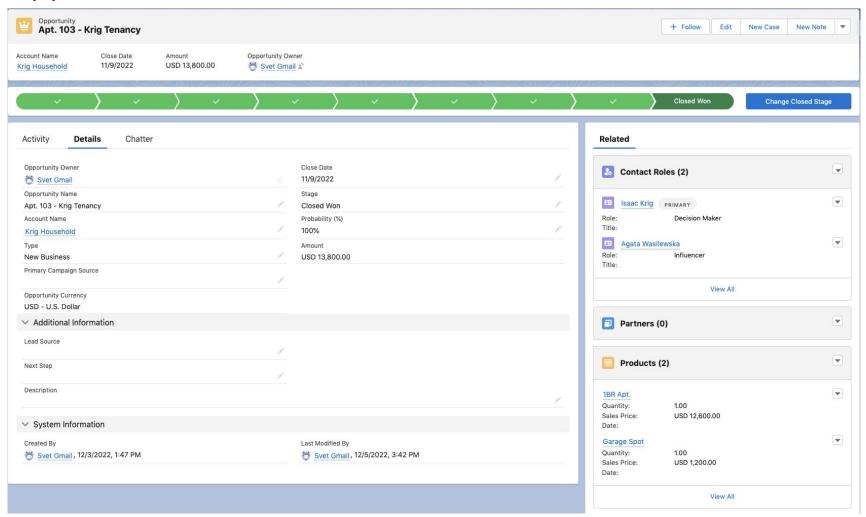
- With Contacts to Multiple Accounts, a person account can be either a:
 - o related contact on a business account
 - Or
 - a related account on a contact.
- A person account can also be related to another person account as either a related contact or related account.
- Person accounts are always indirectly related to other accounts or contacts.

Person Account-to-Person Account via ACR



- Person Accounts and their related Contact records both show up in related lists, if those lists have been added to the page layout and to the Lightning Record Page.
- Business Accounts only show up in the "Related Accounts" related list.

Opportunities & ACR



Opportunity Contact Roles

You can relate person accounts to opportunities using the Contact Roles related list.

Reporting for ACR

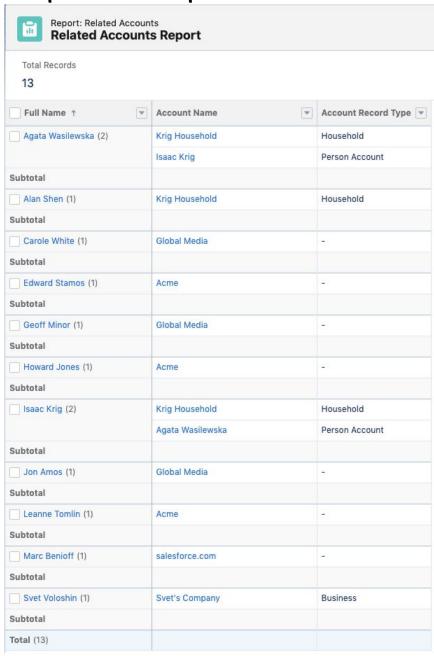
Create Custom Report Types for Account Contact Relationships

- 1. Make sure you're familiar with custom report types and the general steps for creating and maintaining them.
- 2. Create custom report types with the appropriate object relationships, and configure them as necessary. Check out these examples of custom report types to get you started.

REPORT TYPE	LETS TEAMMATES RUN REPORTS THAT SHOW	A (PRIMARY OBJECT)	В	С	MAKE SURE YOU ALSO
Related Contacts	All the contacts, both direct and indirect, that are related to accounts.	Accounts	Contact Relationships		Add the Direct and Full Name fields to the Contact Relationships page layout.
Related Accounts	All the accounts, both direct and indirect, that are related to contacts.	Contacts	Account Relationships		
Related Contacts with or without Activities	All the contacts, both direct and indirect, that are related to accounts, and whether there's recent activity.	Accounts	Contact Relationships	Activities	

- 3. Deploy the report types you want to make available.
- 4. Let your sales teams know that they can create reports using these custom report types.

Report Samples





Total Records

13

Account Name ↑ ▼	Full Name	Account Record Type	
Acme (3)	Edward Stamos	-	
	Howard Jones	-	
	Leanne Tomlin	=	
Subtotal			
Agata Wasilewska (1)	Isaac Krig	Person Account	
Subtotal			
Global Media (3)	Geoff Minor	5	
	Carole White	=	
	Jon Amos	-	
Subtotal			
Isaac Krig (1)	Agata Wasilewska	Person Account	
Subtotal			
Krig Household (3)	Alan Shen	Household	
	Agata Wasilewska	Household	
	Isaac Krig	Household	
Subtotal			
salesforce.com (1)	Marc Benioff	-	
Subtotal			
Svet's Company (1)	Svet Voloshin	Business	
Subtotal			
Total (13)			

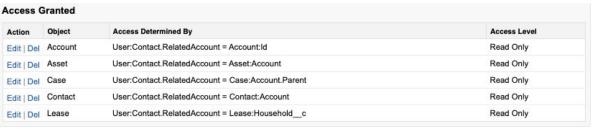
Other Objects' **Visibility**

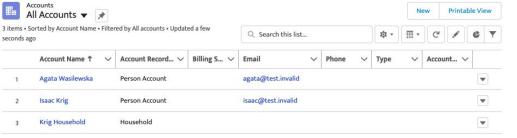
All Contracts ▼ 🖈

Contract Nu... ↑ ∨

00000102

00000103





- Logged-in User is Agata
- Main Household User is Isaac
- Both Agata & Isaac have Person Accounts

O Search this list

Both Agata & Isaac's Person Accounts are related to the Krig Household Account (Business)

Printable View

CY

New

₩.

Ⅲ + C

∨ Contact Na... ∨ Product Name

∨ Contac... ∨

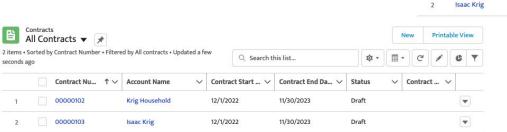
Email

agata@test.invalid

isaac@test.invalid

They are also related to one-another





All Contacts ▼ *

Agata Wasilewska

All Assets ▼ *

Asset Name 1

Name 1

2 items • Sorted by Name • Filtered by All contacts • Updated a minute ago

Account Name

Isaac Krig

2 items • Sorted by Asset Name • Filtered by All assets • Updated a few seconds

Serial Num... ∨

Agata Wasilewska

Notice that Agata can see Isaac's personal records

Q Search this list..

Account Name Krig Household

Isaac Krig

This is a security risk

Install Date

Account: Acco... V

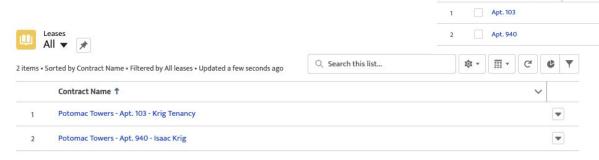
Person Account

How can this be prevented?

Account Name

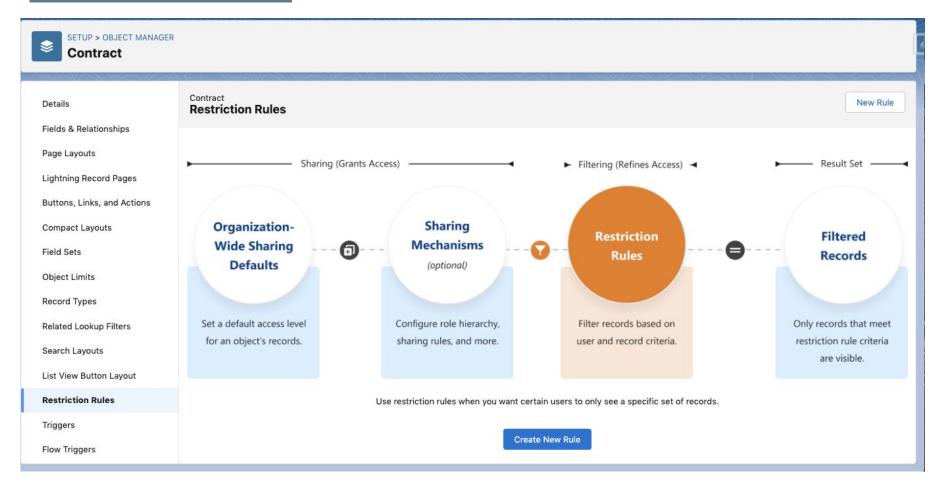
Krig Household

Isaac Krig



- In this case, it's best not to related Person Accounts to one-another
- ←Custom Object

Restriction Rules



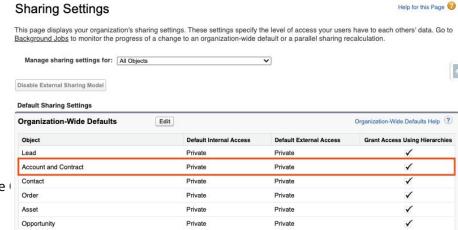
Step By Step Guide to Using Restriction Rules in Salesforce (Ashish Agarwal)

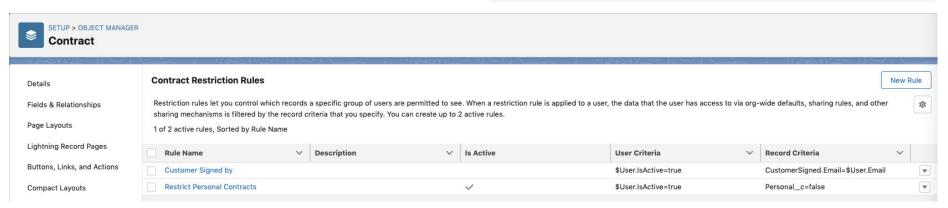
Restriction Rules on Contract

Supported Objects

- Custom Objects
- Contracts
- Events
- Tasks
- Time Sheets
- Timesheet Entries

Contracts are supported, probably because they are locked to the same

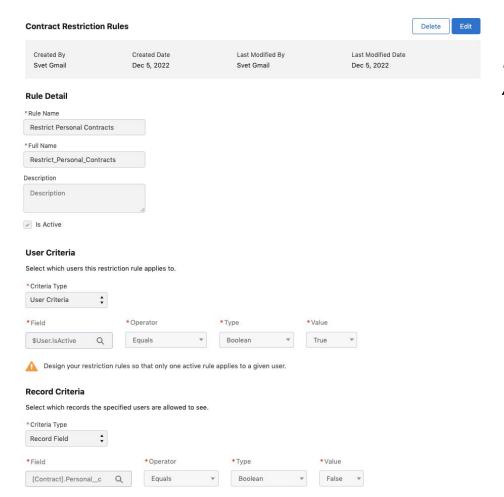




Key Restriction Rule Considerations

- The use of AND and OR operators isn't supported.
- The use of formulas isn't supported.
- 2 restriction rules per object in Enterprise and Developer editions
- 5 restriction rules per object in Performance and Unlimited editions.
- 1 restriction or scoping rule per object per user.
 - o In other words, for a given object, only one restriction or scoping rule at most can have the User Criteria field evaluate to true for a given user.

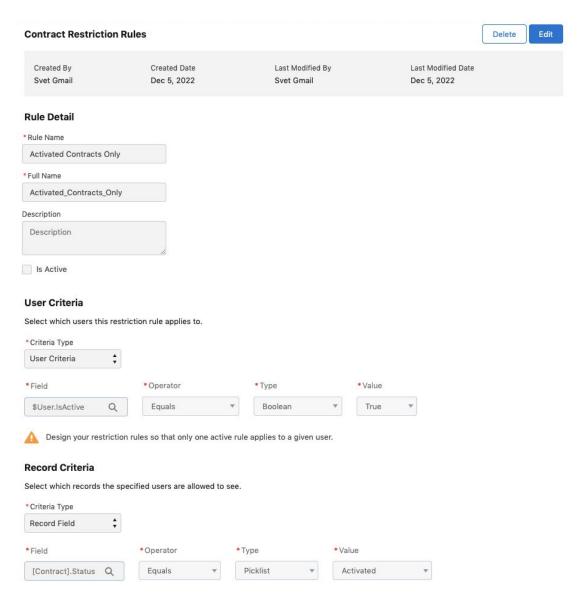
Do RR rules help in the Household Model?



Objective: hide users' personal records, while maintaining Person Account-to-Person Account connection via ACR.

- Both Users have the same Customer Community License
- Both Users are treated equally by the system
- Absence of dynamic evaluation criteria renders Restriction Rules ineffective in this case
- One would have to create multiple restriction rules AND enter a condition where both rules apply, just like in declarative automation
- This is <u>not possible</u> currently with Restriction Rules.

Positive Case for RR rules on Contract



- Show only **Activated** Contracts
- That could be useful, since it would apply to ALL Customer Community Users as a Business Rule

Thank you!

Ways to get in touch...

Connect with me on LinkedIn
BAH Teams/Slack/Email/Phone