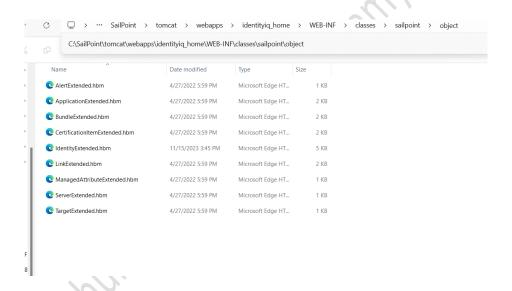
## **Extended Attribute Configuration in SailPoint IIQ**

IdentityIQ supports adding installation-specific searchable extended attributes on *Identities* and several other system objects like *Link*, *Bundle*, *Application*, *ManagedAttribute*, and *CertificationItem*.

## **Configuration Steps:**

Step 1: Update the Hibernate mapping file with the extended attribute details for the specific object type.

Separate Hibernate mapping files exist for each object type and they will be available in the *[IdentityIQ installation directory]/WEB-INF/classes/sailpoint/object* directory and are called [object]Extended.hbm.xml.



As example, going to add a searchable extended attribute for the Identity object in Windows System.

Open the identityExtended.hbm and update the extended attribute name as below for reference

Note: use access="sailpoint.persistence.ExtendedPropertyAccessor" when adding the extended attribute beyond the limit of 20.

Step 2. Create the DLL script through the IIQ schema([IdentityIQ installation directory]/WEB-INF/bin) and run the script in Database to create the column and index in the database table (spt\_identity) for the extended attribute to be created.

```
\SailPoint\tomcat\webapps\identityiq_home\WEB-INF\bin>iiq extendedSchema
adding exports for Java 17
Home directory: C:/SailPoint/tomcat/webapps/identityiq_home
Generating database scripts for mysql
Truncating index[spt_identity_extended1_ci] to 255 chars for MYSQL.
Truncating index[spt_identity_extended2_ci] to 255 chars for MYSQL.
Truncating index[spt_identity_extended3_ci] to 255 chars for MYSQL.
Truncating index[spt_identity_extended4_ci] to 255 chars for MYSQL.
Truncating index[spt_identity_extended5_ci] to 255 chars for MYSQL.
Truncating index[spt_link_extended1_ci] to 255 chars for MYSQL.
Truncating index[spt_app_extended1_ci] to 255 chars for MYSQL.
Truncating index[spt_bundle_extended1_ci] to 255 chars for MYSQL.
Truncating index[spt_managed_attr_extended1_ci] to 255 chars for MYSQL.
Truncating index[spt_managed_attr_extended2_ci] to 255 chars for MYSQL.
Truncating index[spt_managed_attr_extended3_ci] to 255 chars for MYSQL.
Truncating index[spt_certitem_extended1_ci] to 255 chars for MYSQL.
Generating database scripts for oracle
Generating database scripts for sqlserver
Generating database scripts for db2
```

After the DLL script generated the files will be updated in the below path C:\SailPoint\tomcat\webapps\identityiq home\WEB-INF\database

add_identityiq_extensions.db2	11/15/2023 4:45 PM	DB2 File	17 KB
add_identityiq_extensions.mysql	11/15/2023 4:45 PM	MYSQL File	4 KB
add_identityiq_extensions.oracle	11/15/2023 4:45 PM	ORACLE File	5 KB
add_identityiq_extensions.sqlserver	11/15/2023 4:45 PM	SQLSERVER File	5 KB

In two ways we can update the Database table (You can choose any one way to update):

1. Directly from database Workbench, we can execute the below queries created in the DLL script(add\_identityiq\_extensions.mysql) for the extended attribute which needs to be created.

```
alter table identityiq.spt_identity add dateofjoining varchar(450);
create index spt_identity_dateofjoining_ci on identityiq.spt_identity (dateofjoining(255));

(or)
```

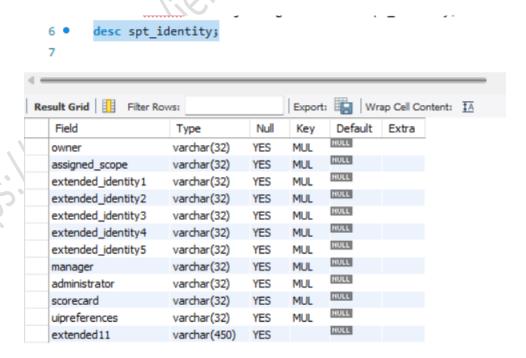
2. Login to the SQL command line and execute the below command

## mysql> source <path of the file>add\_identityiq\_extensions.mysql

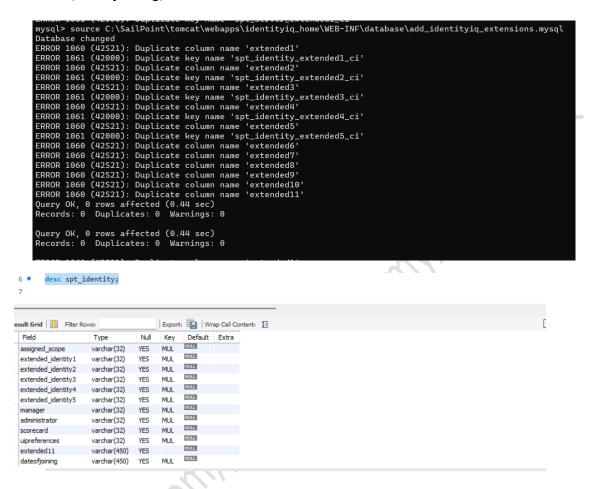
Note: To validate whether the column and index properly updated in the table.

Before running the script:

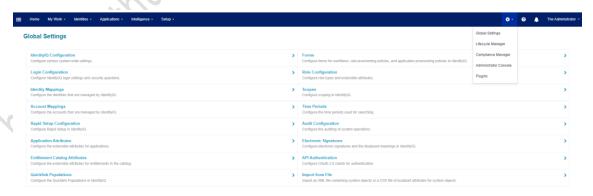
Extended Attribute(dateofjoining) column not exist in the spt identity table



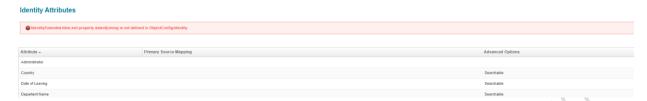
After executing the script in the database: The column and index updated for the extended attribute(dateofjoining)



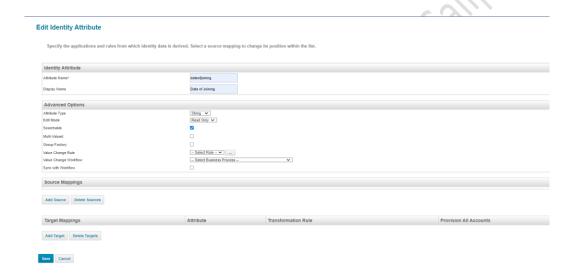
Step 3. Configure the Extended Attribute in the global setting → Identity Mappings in SailPoint UI.



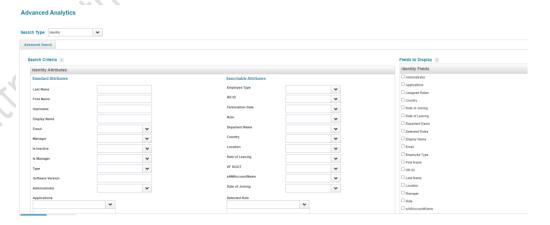
Below Error will occur before configuring the created extended attribute in the Identity mapping.



Open the Identity mapping  $\rightarrow$  select Add New Attribute and update the extended Attribute created in the HBM file and database. Enable the searchable flag so that this attribute can be used in filters, rules etc as a searchable attribute.



After saving the configuration you can verify this extended attribute will be shown under searchable attribute in advanced analytics. This confirms the extended attribute we created is searchable and we can use this in various rule, configurations, filters etc.,



Note: The Global Configuration for various object needs to configured in the below UI object mappings

- Identity Mappings for Identity attributes
- Account Mappings for Link attributes
- Application Attributes for extended Application attributes
- Role Configuration for Bundle attributes

Reference: https://community.sailpoint.com/t5/Technical-White-Papers/Managing-Extended-