# Importing and Securing Data in ServiceNow

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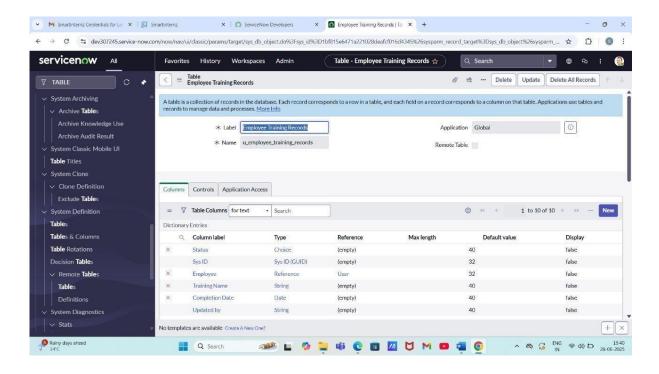
#### INTRODUCTION:

ServiceNow is a cloud-based platform widely used for IT service management (ITSM), business workflow automation, and enterprise operations. One of its key capabilities is handling data — including importing, organizing, and securing it efficiently.

**Data Importing** in ServiceNow involves bringing external data (e.g., from Excel, CSV, or databases) into the platform to populate tables, automate workflows, or support business processes. This is typically done using tools like **Import Sets**, **Transform Maps**, and **Data Sources**. These tools ensure that raw data is accurately mapped to ServiceNow's structured tables, preserving data integrity and usability.

On the other hand, **Data Security** in ServiceNow is critical to protect sensitive information and ensure proper access control. ServiceNow employs a robust **role-based access control** (**RBAC**) system, allowing administrators to define who can view, edit, or delete specific data. Additionally, **Field-level encryption**, **Access Control Rules**, and **Data Policies** are used to safeguard data throughout its lifecycle.

### Tables in ServiceNow:



In ServiceNow, tables are the foundational components where data is stored. Each table contains fields (columns) and records (rows) similar to a relational database.

Tables can represent:

- Users (sys user)
- Incidents (incident)
- Departments (cmn department)
- Assets (alm asset)
- Configuration Items (cmdb ci)
- Custom business records (via custom tables)

# **Field Types in Tables**

Each table contains **fields**, each with a defined data type. Common field types include:

**Description** Field Type

Text values (e.g., Name, Description) String

Whole numbers Integer

Date/Time Date and time information

Reference Link to another table

Choice Dropdown list of predefined values

True/False checkbox Boolean

Glide List List of references to other table records

Tracks history (e.g., comments/work notes) Journal (Notes)

# **System Tables:**

ServiceNow also includes **system tables** that handle internal configurations:

Table Name	Purpose
sys_user	User profiles
sys_group	User groups
sys_user_role	User roles
sys dictionary	Defines field

ds and attributes

Stores metadata about configurations sys metadata

sys properties Global system properties

sys audit Audit logs

### **Importing Data:**

Import Process Overview:

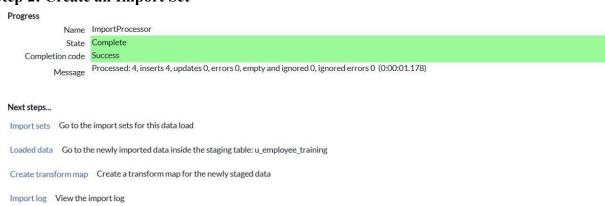
To bring data into ServiceNow, follow these steps:

# **Step 1: Prepare Your Data**

• Format the data in CSV, Excel, or XML.

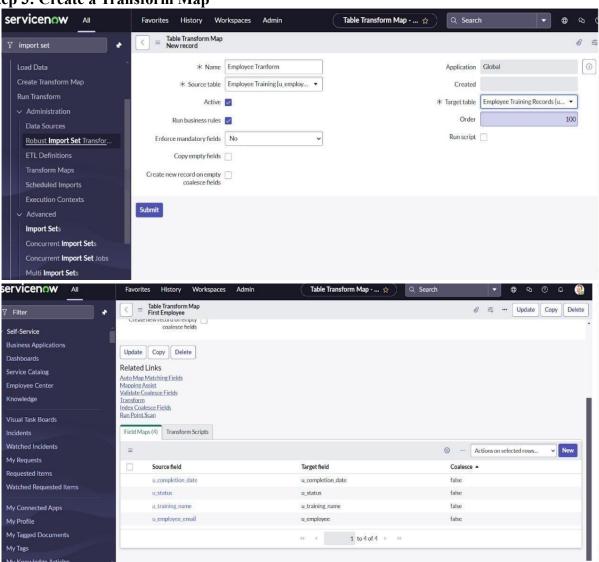
• Include necessary fields like employee\_id, name, department, etc.

# **Step 2: Create an Import Set**



- Go to System Import Sets > Load Data.
- Upload your file and create a new Import Set Table.

**Step 3: Create a Transform Map** 

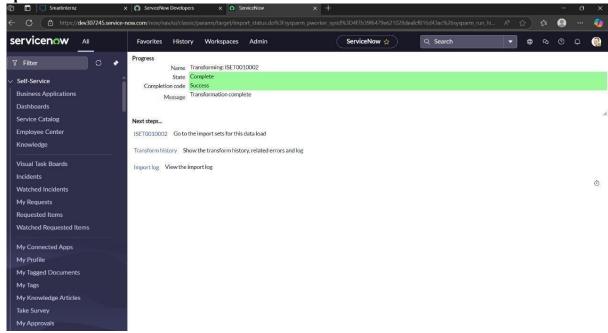


• Go to System Import Sets > Create Transform Map.

Choose the Import Set Table as the source and your target table (e.g., sys\_user) as the destination.

• Map source fields to target fields.

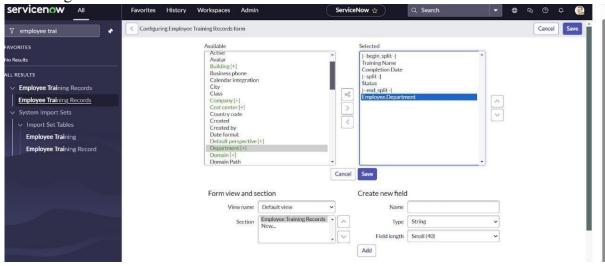
**Step 4: Run the Transform** 



- Go to the import set and click Transform.
- Data will be moved from the import set into the actual ServiceNow table.

# **Using Dot-Walking to Access Employee Department Information:**

Dot-walking is a method in ServiceNow to access fields in related tables.



#### Example:

If you're accessing a user (sys\_user) record and want to get the department name: user.department.name

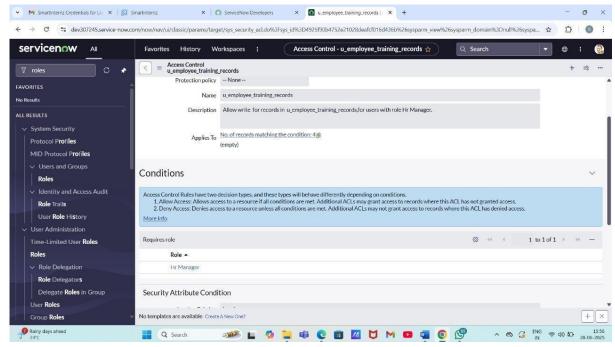
- user: sys user record
- department: reference field to cmn department
- name: the name of the department Use Case in a Script or Report: **Java script** var user = gs.getUser();

var dept = user.getRecord().
getValue('department.name'); gs.info ("Department: " +
dept); Dot-walking also works in:

- Reports
- Email Templates
- Business Rules
- UI Policies

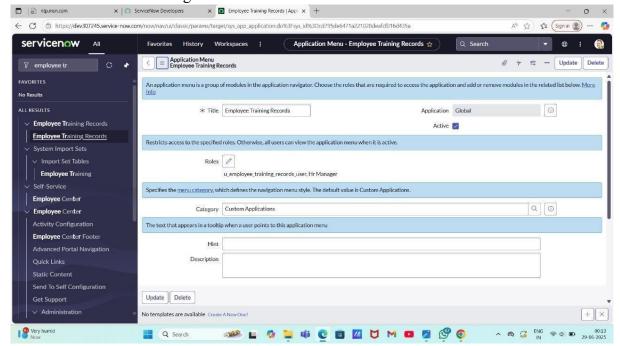
# **Access Control List (ACL):**

Created new ACL

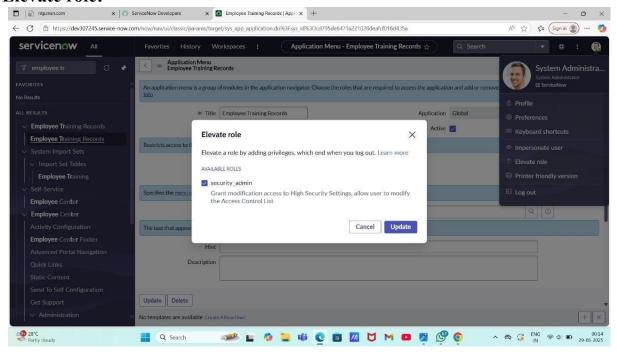


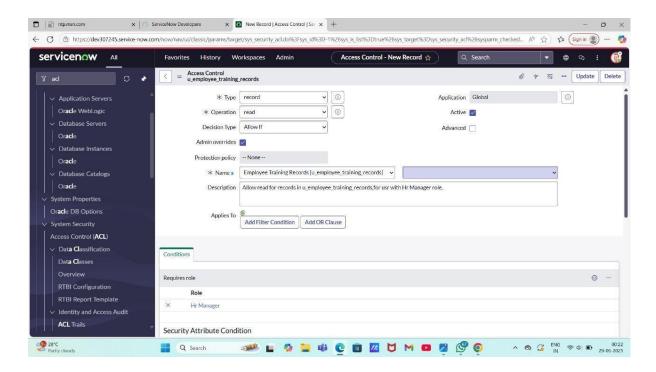
#### **Roles in ServiceNow:**

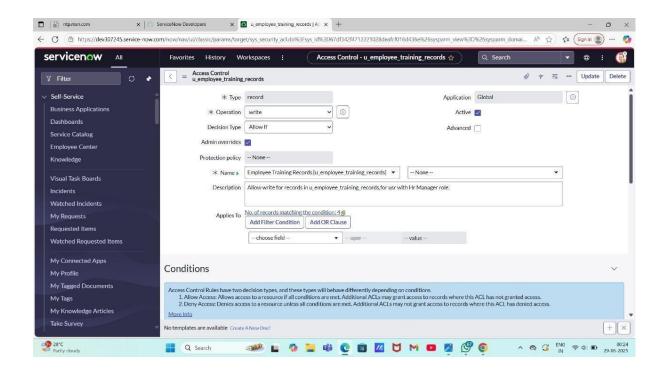
Created a new role HR Manager

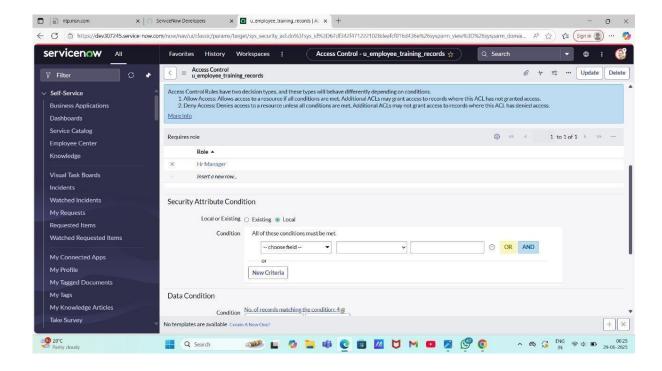


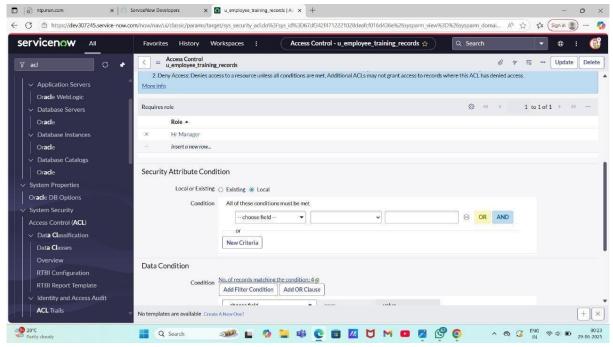
### **Elevate role:**











#### **Results:**

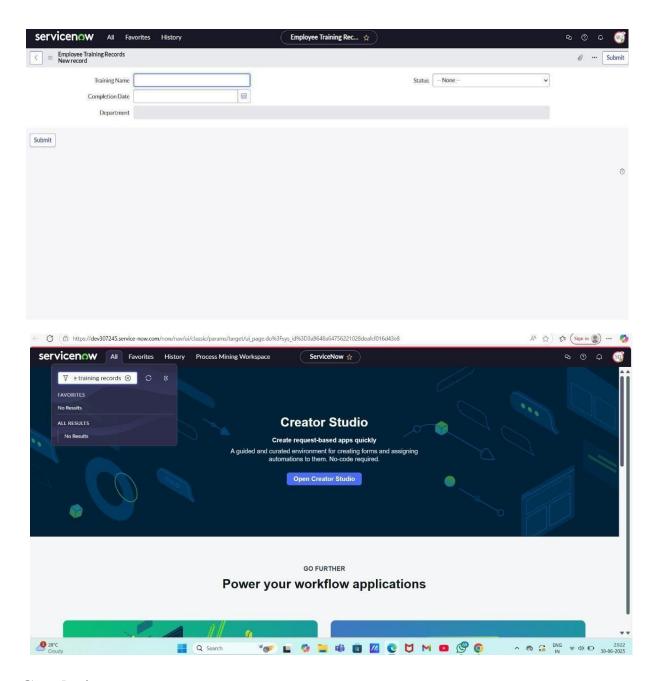
After importing and securing data:

- Data is structured in tables like sys user, cmn department.
- Using dot-walking, you can easily reference related data fields.
- ACLs ensure that only authorized users can see or edit sensitive data.
- Roles control what users can do, from viewing reports to importing data.

You can verify successful import by:

- Viewing records in the target table.
- Creating reports to visualize user and department info.

  ☐ Checking logs for transform errors.



### **Conclusion:**

Importing and securing data in ServiceNow ensures data integrity, accessibility, and security. The process involves:

- Structuring data in tables.
- Using Import Sets and Transform Maps to bring in external data.
- Leveraging **dot-walking** to navigate related records easily.
- Applying ACLs and roles to safeguard data access.

Proper data handling is critical for efficient ServiceNow operations and ensures compliance with organizational security standards.