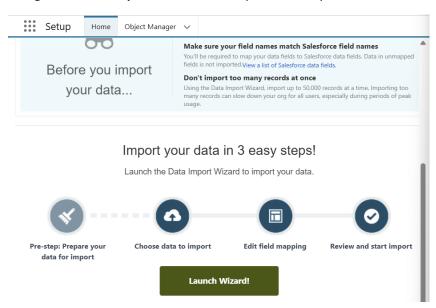
Phase 8: Data Management & Deployment

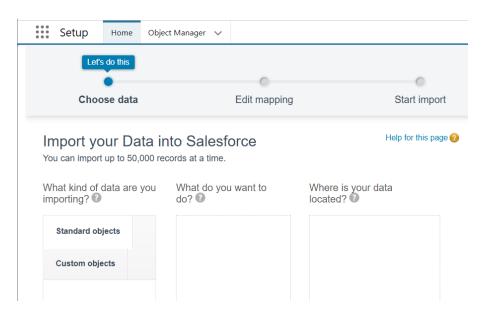
1. Data Import Wizard

Step-wise Process (Explored):

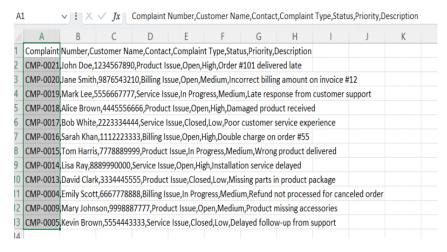
1. Navigate to **Data Import Wizard** \rightarrow Setup \rightarrow Data Import Wizard \rightarrow Launch Wizard.



2. Select Object → Complaint.



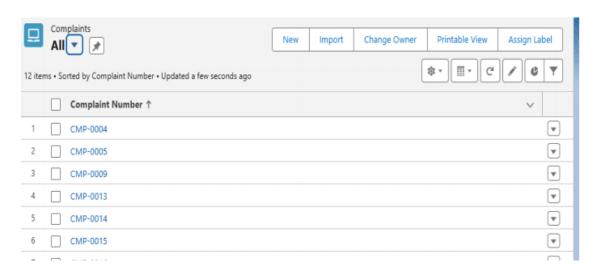
3. Upload CSV File \rightarrow Choose the file containing records.



- Map Fields → Match CSV columns with Salesforce fields (e.g., Complaint Number → Complaint Number).
- 5. Select Import Options → Trigger workflow rules or set record owner if needed.
- 6. Start Import → Salesforce validates and imports records.
- 7. Review Results → Check for success or errors.

Project Note:

- We explored using Data Import Wizard with external sources.
- Since our dataset is small (10–12 complaints), we created all records manually instead of importing.



2. Duplicate Rules

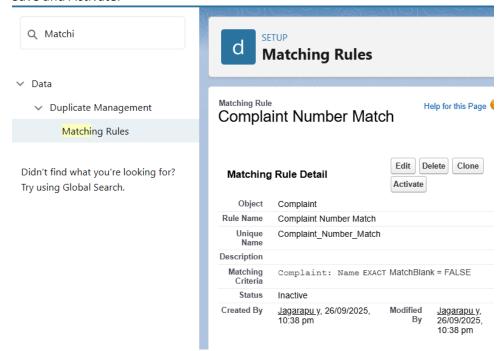
Purpose:

Prevent duplicate complaints and maintain data integrity.

Step-wise Setup:

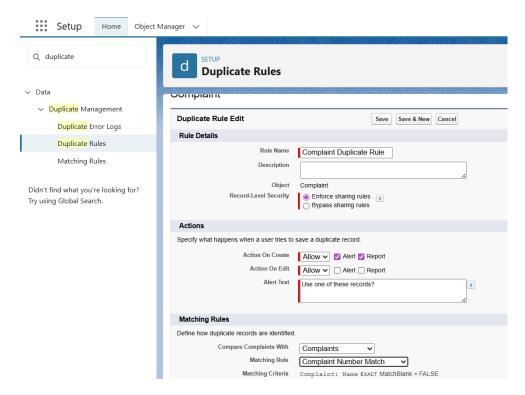
1. Create Matching Rule

- \circ Setup → Matching Rules → New Rule → Object: Complaint
- o Rule Name: Complaint Number Match
- Matching Criteria: Field: Complaint Number, Method: Exact, Match Blank Fields: unchecked
- Save and Activate.



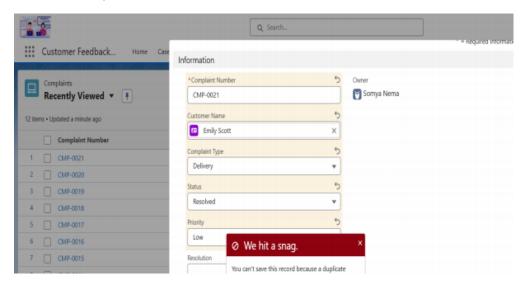
2. Create Duplicate Rule

- o Setup → Duplicate Rules → New Rule → Object: Complaint
- o Rule Name: Complaint Duplicate Rule, Unique Name: Complaint_Duplicate_Rule
- o Matching Rule: Complaint Number Match
- Actions on Create/Edit: Block, Alert Text: "Duplicate complaint detected!"
- Save and Activate.



3. Test the Duplicate Rule

 \circ Try creating a complaint with an existing Complaint Number \rightarrow Salesforce blocks it successfully.



Outcome:

- Duplicate complaints cannot be created.
- Maintains data quality and integrity in the system.

3. Data Loader

Purpose:

Client application for bulk data operations (insert, update, upsert, delete, export). Best for **large** datasets (up to millions of records).

Step-wise Process (Not Used):

- 1. Install Data Loader (from Setup → Data Loader).
- 2. Login with Salesforce credentials + security token.
- 3. Choose operation (Insert/Update/Upsert/Delete/Export).
- 4. Select CSV file and map fields.
- 5. Run operation and check success/error logs.

Project Note:

- Not used, as our dataset is small.
- Intended for future cases where bulk complaint data needs migration/import.

4. Data Export & Backup

Purpose:

Take scheduled or manual backups of Salesforce data for recovery/migration.

Step-wise Process (Optional):

- 1. Setup \rightarrow Quick Find \rightarrow Data Export.
- 2. Choose objects (e.g., Complaint, Student, Consultant).
- 3. Schedule export (weekly/monthly) or export now.
- 4. Salesforce generates a ZIP with CSV files.

Project Note:

- Backup not performed in this project.
- Will be useful for archiving complaints and student records in production.
- 1. In target org, go to **Inbound Change Sets**, validate, then deploy.

6. Unmanaged vs Managed Packages(not required)

Purpose:

Package and distribute Salesforce apps/metadata.

- Unmanaged Package
 - Components are editable in target org.
 - o Used for open-source, training, or one-time deployments.

• Managed Package

- o Components are namespace-protected and not editable.
- o Supports versioning and upgrades.
- Used by ISVs to publish apps on AppExchange.

Project Note:

• For internal deployment, **Unmanaged Packages** would be sufficient.

7. VS Code & SFDX (Salesforce DX)

Purpose:

Modern source-driven development with scratch orgs, CLI, CI/CD pipelines.

(not required for this crm application)