

# Salesforce Project Phase-8

## Phase 8: Data Management & Deployment

### 1. Data Import Wizard

**Purpose:** Import new records into Salesforce using UI-based wizard.

**Steps:**

- 1. Setup → Data Import Wizard → Launch Wizard.
- 2. Select object (Student , Internship Application , Internship ).
- 3. Choose operation: Add New Records / Update / Upsert.
- 4. Upload CSV (headers = Salesforce API Names).
- 5. Map fields manually if required.
- 6. Start import → Monitor progress → Check success/error report.

Getting closer...

Choose data

Edit mapping

Start import

Import your Data into Salesforce

You can import up to 50,000 records at a time.

Help for this page

What kind of data are you importing?

What do you want to do?

Where is your data located?

Standard objects

Custom objects

Applications

Companies

Feedbacks

Internship Applications

Internships

Placement Officers

Add new records

Match by: -None-

Which User field in your file designates record owners? -None-

Trigger workflow rules and processes? ☐ Trigger workflow rules and processes for new and updated records

Record type Undergraduate

Update existing records

File student.csv

Character Code ISO-8859-1 (General US & Western European, ISO-LATIN-1)

Values Separated By Comma

CSV

Almost done

Choose data

Edit mapping

Start import

### Edit Field Mapping: Students

Your file has been auto-mapped to existing Salesforce fields, but you can edit the mappings if you wish. Unmapped fields will not be imported.

Edit	Mapped Salesforce Object	CSV Header	Example	Example	Example
<a href="#">Change</a>	Student External ID	Student_External_ID	STU001	STU002	STU003
<a href="#">Change</a>	Student Name	Student Name	Anita	Rahul	Auc
<a href="#">Change</a>	Email	Email	anita.sharma@e	anita.sharma@e	anita.sharma@example.com
<a href="#">Change</a>	Department	Department	CS	DS	IOT
<a href="#">Change</a>	Skills	Skills	Java , Python	C , C++	C , JAVA
<a href="#">Change</a>	Resume Link	Resume Link	https://drive.link/r	https://drive.link/r	https://drive.link/resume1.pdf
<a href="#">Change</a>	CGPA/GPA	CGPA_GPA__c	8.2	7.6	8.5

Great job

Choose data

Edit mapping

Start import

### Review & Start Import

Review your import

Your selections:

Students ✓

Add new records ✓

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Congratulations, your import has started!

Click OK to view your import status on the Bulk Data Load Job page.

OK

Tips:

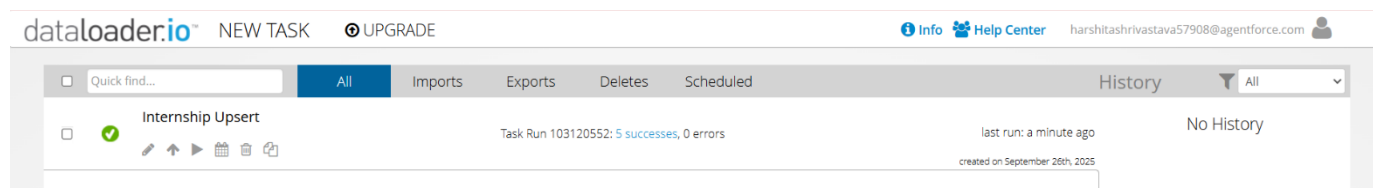
- Unique identifiers (Student External ID) must match.
- Required fields must be filled.
- Check lookup fields for related objects.

2. Data Loader

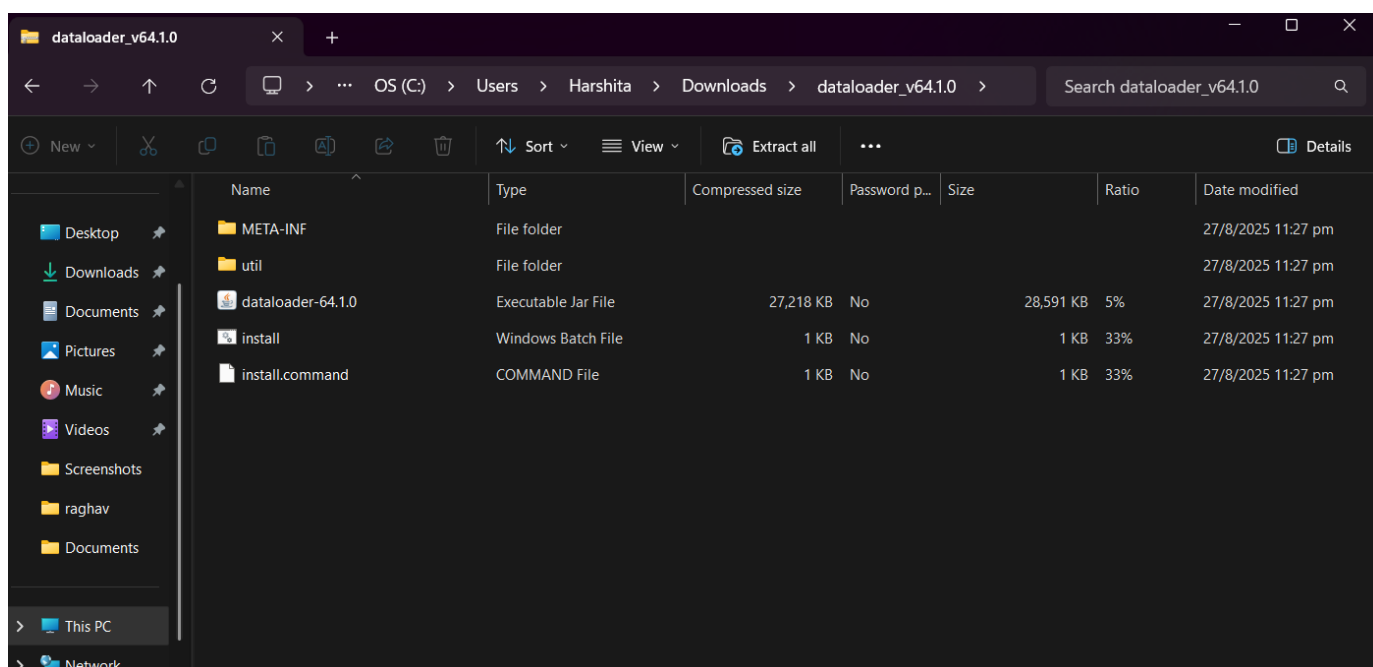
**Purpose:** Bulk import/update/delete/export records.

**Steps:**

1. Install & open Data Loader.
2. Login → choose environment (Sandbox/Production).
3. Select operation: Insert / Update / Upsert / Delete / Export.



4. Select object → Select CSV file.
5. Map fields → Save mapping.
6. Run operation → Download success & error files.
7. Verify data in Salesforce.



### Tips:

- Internship\_External\_ID\_\_c as external ID for Upsert.
- Always backup data before bulk operations.

## Duplicate rules

**Purpose:** Maintain data quality by preventing duplicates.

Prevent duplicate Student or Company records when importing data.

### Steps:

- Create Matching Rule: Setup → Matching Rules → New. Define fields to match (e.g., Email Clients).
- Create Duplicate Rule: Setup → Duplicate Rules → New. Select Matching Rule.

- Action on Create/Edit: Block / Alert.
- Activate rule.
- Test rule by inserting duplicate record.

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SETUP

Matching Rules

Matching Rule

Match\_Student\_By\_Email

Help for this Page ?

Matching Rule Detail

Delete

Clone

Deactivate

Object	Student		
Rule Name	Match_Student_By_Email		
Unique Name	Match_Student_By_Email		
Description			
Matching Criteria	Student: Email EXACT MatchBlank = FALSE		
Status	Active		
Created By	Harshita Shrivastava, 9/26/2025, 4:27 AM	Modified By	Harshita Shrivastava, 9/26/2025, 4:27 AM

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SETUP

Duplicate Rules

Student Duplicate Rule

Prevent\_Duplicate\_Students

Help for this Page ?

Duplicate Rule Detail

Edit

Delete

Clone

Deactivate

Rule Name	Prevent_Duplicate_Students	Order	1 of 1 [ Reorder ] i
Description			
Object	Student		
Record-Level Security	Enforce sharing rules		
Action On Create	Block	Operations On Create	<input type="checkbox"/> Alert <input type="checkbox"/> Report
Action On Edit	Block	Operations On Edit	<input type="checkbox"/> Alert <input type="checkbox"/> Report
Alert Text	Student with this email already exists.		
Active	<input checked="" type="checkbox"/>		
Matching Rule	<input checked="" type="checkbox"/> Match_Student_By_Email <input checked="" type="checkbox"/> Mapped	Matching Criteria	Student: Email EXACT MatchBlank = FALSE
Conditions			
Created By	Harshita Shrivastava, 9/26/2025, 4:30 AM	Modified By	Harshita Shrivastava, 9/26/2025, 4:30 AM

Edit

Delete

Clone

Deactivate

## 4. Data Export & Backup

**Purpose:** Backup Salesforce data.

### Steps (UI):

1. Setup → Data Export → Export Now / Schedule Export.
2. Select objects → Clients, Videos, Alerts, Detection\_System.
3. Include attachments/files if needed.
4. Click Start Export → Download .zip files.

## Monthly Export Service

[Help for this Page](#) 

Data Export lets you prepare a copy of all your data in salesforce.com. From this page you can start the export process manually or schedule it to run automatically. When an export is ready for download you will receive an email containing a link that allows you to download the file(s). The export files are also available on this page for 48 hours, after which time they are deleted.

Next scheduled export: None		
<button>Export Now</button> <button>Schedule Export</button>		
Scheduled By	<a href="#">Harshita Shrivastava</a>	
Schedule Date	9/26/2025	
Export File Encoding	ISO-8859-1 (General US & Western European, ISO-LATIN-1)	
Action	File Name	File Size
<a href="#">download</a>	WE_00DgL00000C0NTIUAF_1.ZIP	2.4K

### Tips:

- Maintain versioned backups.
- Store securely.

## 5. Change Sets

**Purpose:** Deploy metadata from Sandbox → Production.

### Steps:

1. Create Outbound Change Set → Name & Description.
2. Add Components: Objects, Fields, Validation Rules, Flows, Apex, Dashboards.
3. Add Profiles (optional).

1. Upload to target org.
2. Target org → Inbound Change Set → Deploy.

**Tips:**

- Deploy dependencies in correct order.
- Test flows & validation rules after deployment.

## **6. Unmanaged vs Managed Packages**

**Unmanaged Package:** Editable in target org, cannot upgrade. **Managed Package:** Mostly protected, upgradeable, used for AppExchange.

**Use Cases:**

- Deepfake CRM sandbox sharing → Unmanaged.
- Client distribution / production → Managed.

## **7. ANT Migration Tool**

**Purpose:** Command-line metadata deployment.

**Steps:**

1. Install Java & ANT.
2. Download Salesforce ANT Migration Tool.
3. Configure build.properties (org credentials).
4. Create package.xml (metadata to deploy).
5. Retrieve: ant retrieveUnpackaged.
6. Deploy: ant deployCode.

7. Check console output → Fix errors.

**Tips:**

- Include all dependencies.
- Test in Sandbox first.

## **8. VS Code & SFDX**

**Purpose:** Source-driven development & deployment.

**Steps:**

1. Install VS Code & Salesforce Extension Pack.
2. Install Salesforce CLI (SFDX).
3. Create SFDX project → SFDX: Create Project.
4. Authorize org: `sfdx auth:web:login -r <url> -a <alias>`.
5. Retrieve metadata: `sfdx force:source:retrieve -m CustomObject:Videos__c`.
6. Make local changes → Objects, Flows, Validation Rules, LWC.
7. Deploy changes: `sfdx force:source:deploy -p force-app -u <alias>`.
8. Verify in Salesforce → test functionality.

