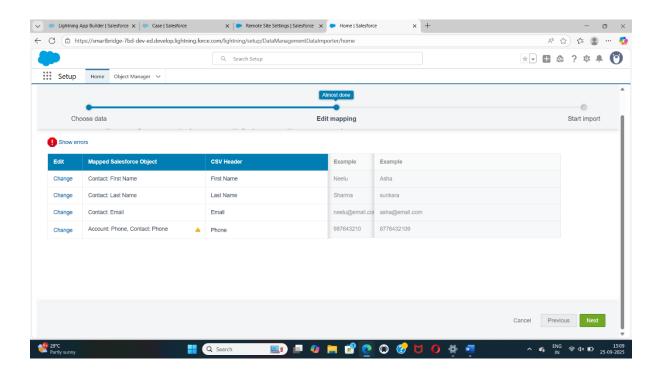
Phase 8: Data Management & Deployment

Objective:

Ensure accurate and secure handling of customer data in Salesforce, while deploying configurations and code safely from sandbox to production environments.

1. Data Import Wizard

- **Purpose:** Simple tool for importing small to medium data sets.
- Usage:
 - 1. Navigate to Setup \rightarrow Data Import Wizard.
 - 2. Choose the object (Leads, Accounts, Contacts, Custom Objects).
 - 3. Upload CSV file.
 - 4. Map fields (CSV → Salesforce fields).
 - 5. Start import.
- Outcome: Quick import of customer data without coding.

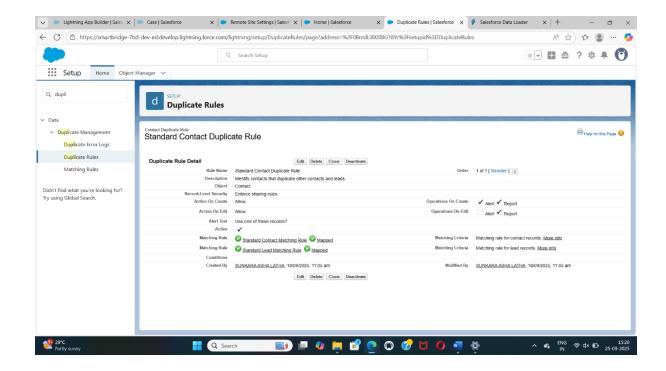


2. Data Loader

- **Purpose:** Advanced tool for handling large data volumes (50,000 5 million records).
- Usage:
 - o Install Salesforce Data Loader on desktop.
 - o Choose operation: Insert, Update, Upsert, Delete, Export.
 - o Provide login credentials.
 - o Upload CSV and map fields.
- Outcome: Bulk data operations for cases, contacts, and historical customer records.

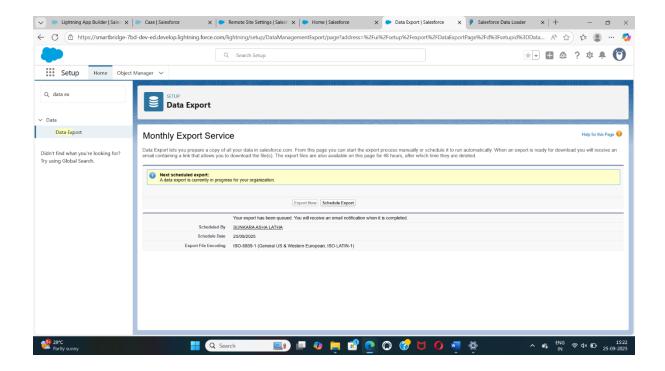
3. Duplicate Rules

- Purpose: Prevent duplicate records in Salesforce.
- Setup Steps:
 - 1. Go to Setup \rightarrow Duplicate Rules.
 - 2. Select object (e.g., Contact).
 - 3. Define matching criteria (e.g., same Email).
 - 4. Choose action: Block or Allow with Alert.
- Outcome: Ensures clean, duplicate-free customer database.



4. Data Export & Backup

- **Purpose:** Protect data by scheduling regular backups.
- Steps:
 - 1. Setup \rightarrow Data Export.
 - 2. Choose objects (Cases, Contacts, Custom Objects).
 - 3. Schedule weekly/monthly export.
 - 4. Download the zip file.
- Outcome: Secured backup of support data for compliance and disaster recovery.



5. Change Sets

• **Purpose:** Deploy metadata (objects, fields, flows, Apex, LWCs) between Sandbox and Production.

• Steps:

- 1. In Sandbox \rightarrow Outbound Change Set \rightarrow New.
- 2. Add components (Objects, Apex Classes, Flows, Reports, etc.).
- 3. Upload to target org (Production).
- 4. In Production \rightarrow Inbound Change Set \rightarrow Deploy.
- Outcome: Safely deploy customizations without affecting live data.

6. Unmanaged vs Managed Packages

- Unmanaged Packages:
 - Used for open-source or internal deployment.
 - Full access to code & customization.

Managed Packages:

- Used for AppExchange apps.
- Code is locked for IP protection.

• Outcome: Helps decide packaging strategy if building reusable solutions.

7. ANT Migration Tool

- Purpose: Command-line tool for scripted deployments.
- Usage:
 - Install Apache ANT.
 - o Configure build.xml and package.xml.
 - o Run commands (ant retrieve, ant deploy).
- Outcome: Automates deployment for large projects.

8. VS Code & SFDX

- Purpose: Modern developer tool for Salesforce.
- Steps:
 - 1. Install Visual Studio Code.
 - 2. Install Salesforce CLI (SFDX).
 - 3. Connect org: sfdx force:auth:web:login.
 - 4. Retrieve or deploy metadata:
 - 5. sfdx force:source:pull
 - 6. sfdx force:source:deploy -m ApexClass:MyClass
- **Outcome:** Enables source-driven development, version control, and CI/CD pipeline setup.

Expected Outputs / Results

- Clean and duplicate-free data imported into Salesforce.
- Secure weekly/monthly backups for compliance.
- Metadata deployed from Sandbox → Production using Change Sets or SFDX.
- Bulk data operations handled via Data Loader.
- Developers manage deployments with VS Code & SFDX, ensuring version control and automation.