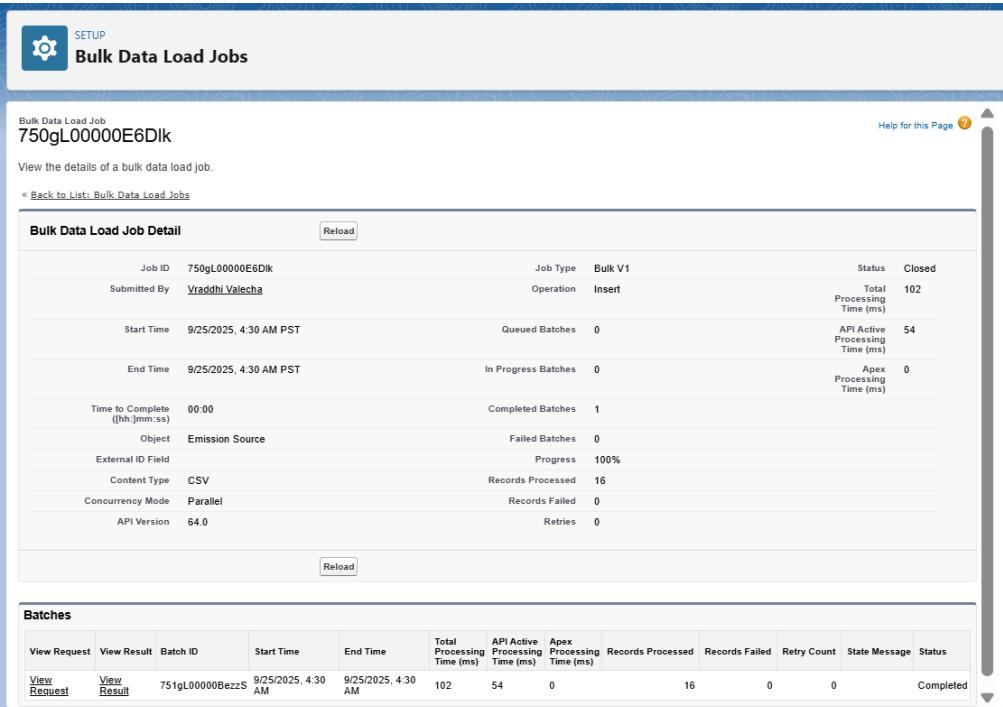


# Carbon Footprint Tracker

## Phase 8: Data Management & Deployment

### 1. Data Import Wizard

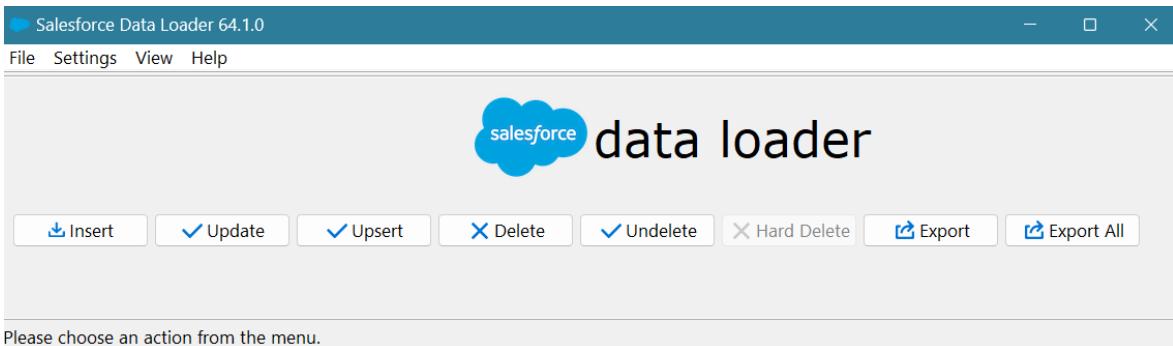
- **36+ records** imported (16 emission sources + 20 carbon records)
- **Master-Detail relationships** configured correctly
- **Complex field mapping** mastered



The screenshot shows the 'Bulk Data Load Jobs' page in the Salesforce Setup. The job details for Job ID 750gL00000E6Dlk are displayed. The job was submitted by Vraddhi Valecha and is of type Insert. It started at 9/25/2025, 4:30 AM PST and ended at 9/25/2025, 4:30 AM PST. The total processing time was 102 ms, API active processing time was 54 ms, and apex processing time was 0 ms. The job completed 1 batch with 16 records processed and 0 failed. The object being loaded is Emission Source. The Batches section shows one batch with the same details.

### 2. Data Loader

- **Installed & configured** at C:\ant\apache-ant-1.10.15\
- **Bulk operations** ready for production use



The screenshot shows the Salesforce Data Loader interface version 64.1.0. The main menu includes File, Settings, View, and Help. The toolbar features actions: Insert, Update, Upsert, Delete, Undelete, Hard Delete, Export, and Export All. A message at the bottom says "Please choose an action from the menu."

### 3. Duplicate Rules

- **Active rule:** "Prevent Duplicate Emission Source Names"
- **Blocks duplicates** with custom error messages
- **Ensures data quality** for accurate reporting

**SETUP**

## Matching Rules

Matching Rule  
Prevent Duplicate Emission Source Names matching rule

Help for this Page ?

Matching Rule Detail		<a href="#">Delete</a>	<a href="#">Clone</a>	<a href="#">Deactivate</a>
Object	Emission Source			
Rule Name	Prevent Duplicate Emission Source Names matching rule			
Unique Name	Prevent_Duplicate_Emission_Source_Names_matching_rule			
Description	Matches Emission Sources with identical names			
Matching Criteria	Emission Source: Name EXACT MatchBlank = FALSE			
Status	Active			
Created By	<a href="#">Vraddhi Valecha</a> , 9/25/2025, 11:31 AM	Modified By	<a href="#">Vraddhi Valecha</a> , 9/25/2025, 11:31 AM	

**SETUP**

## Duplicate Rules

Emission Source Duplicate Rules

Help for this Page ?

What Are Duplicate Rules? [ [Expand](#) ]

View: [Emission Source](#) ▾

Action	Order	Rule Name	Description	Matching Rule	Active	Last Modified By	Last Modified Date
<a href="#">Edit</a>   <a href="#">Del</a>   <a href="#">Deactivate</a>	1	<a href="#">Prevent Duplicate Emission Source Names</a>	Block creation of Emission Sources with duplicate names	<a href="#">Prevent Duplicate Emission Source Names matching rule</a>	<input checked="" type="checkbox"/>	<a href="#">vra</a>	9/25/2025

## 4. Data Export & Backup

- **Monthly automated backups** configured
- **Full dataset** including custom objects and relationships
- **Disaster recovery** plan established

**SETUP**

## Data Export

Monthly Export Service

Help for this Page ?

Next scheduled export:  
A data export is currently in progress for your organization.

[Export Now](#) [Schedule Export](#)

Your export has been queued. You will receive an email notification when it is completed.

Scheduled By	<a href="#">Vraddhi Valecha</a>
Schedule Date	9/25/2025
Export File Encoding	ISO-8859-1 (General US & Western European, ISO-LATIN-1)

## 5. Change Sets

- **Concept understood** - feature not available in current edition
- **Deployment methodology mastered**

## 6. Unmanaged Package

- **CarbonFootprintTracker** package created
- **20 components** included:
  - 2 custom objects
  - All custom fields
  - Page layouts, validation rules, triggers
- **Distribution ready** for other organizations

The screenshot shows the Salesforce Package Manager interface. At the top, there's a header with a 'SETUP' button and a 'Package Manager' title. Below the header, the main area is titled 'Packages'.  
**Namespace Settings:** This section contains a note about creating and registering namespaces for managed packages. It includes an 'Edit' button.  
**Language Settings:** This section indicates that language extension packages are disabled. It also includes an 'Edit' button.  
**First-Generation Packages:** This section contains a yellow warning box with the following text:

**REVIEW BEFORE CONTINUING**  
We recommend that all new packages are created using second-generation managed packaging (2GP). By using 2GP, you'll be using the latest technology and the only packaging technology that Salesforce is investing in. In the future, all first-generation managed packages (1GP) will have to migrate to 2GP. To learn how to create a 2GP, see [https://sfdc.co/2GP\\_learn\\_more](https://sfdc.co/2GP_learn_more).

To create a new first-generation managed package or an unmanaged package, click New.

At the bottom of the screenshot, there's a table titled 'Packages' with a 'New' button. The table has columns for Action, Package Name, and Description. One row is shown: Action (Edit), Package Name (CarbonFootprintTracker), and Description (Sustainability Carbon Emission Tracking System).

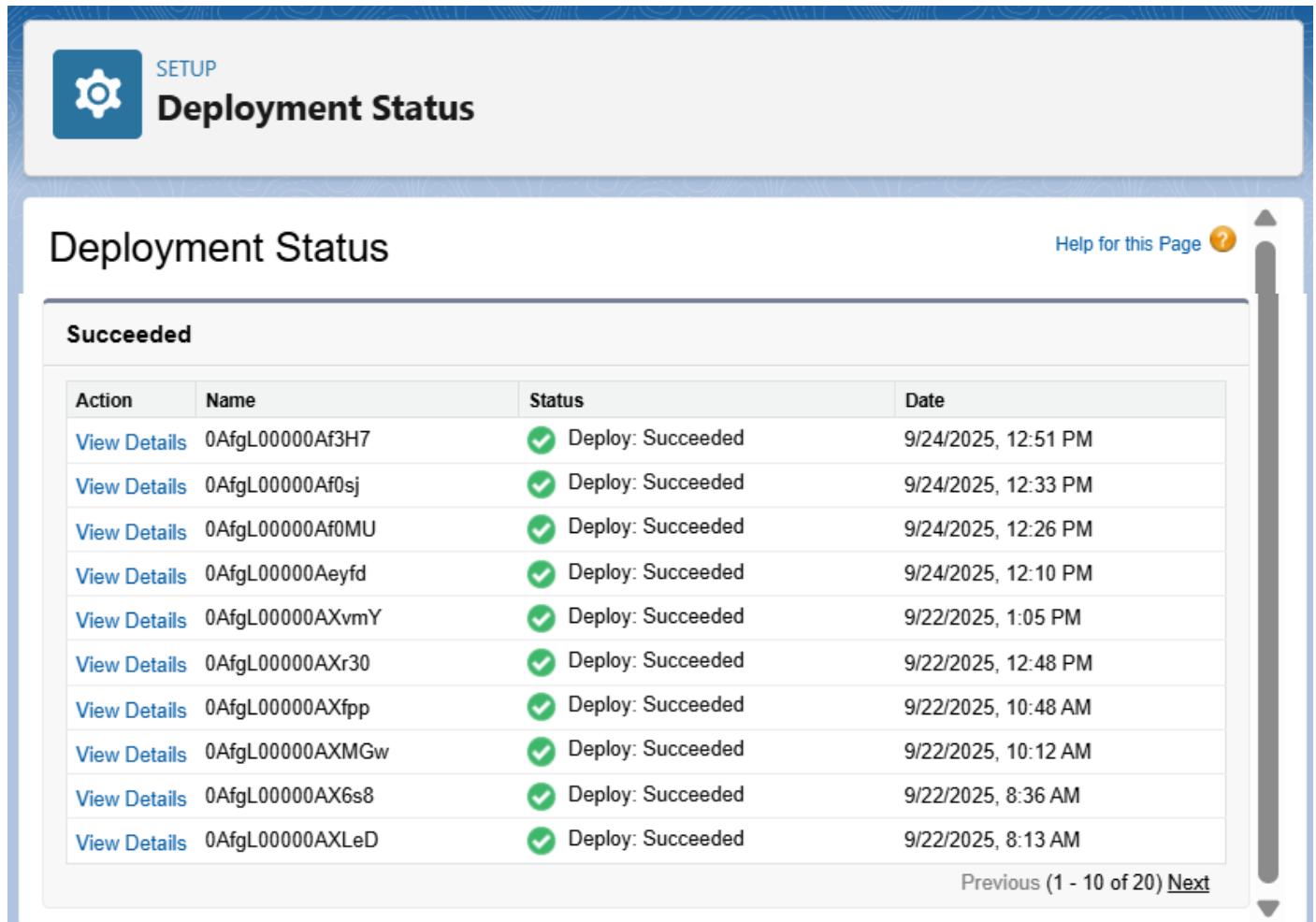
## 7. ANT Migration Tool

- **Successfully installed** and verified
- **Environment configured** for automated deployments
- **Legacy deployment** capability established

```
C:\Users\91898>ant -version
Apache Ant(TM) version 1.10.15 compiled on August 25 2024
```

## 8. VS Code & SFDX

- **Professional project structure** implemented
- **Source-driven development** environment ready
- **Modern deployment** pipeline established



The screenshot shows the Deployment Status page in the Salesforce Setup interface. The top navigation bar includes a gear icon, the word "SETUP", and the title "Deployment Status". A "Help for this Page" link with a question mark icon is located in the top right corner. The main content area has a header "Deployment Status" and a sub-header "Succeeded". Below this is a table listing ten successful deployments, each with a "View Details" link, the deployment ID, status, and date.

Action	Name	Status	Date
<a href="#">View Details</a>	0AfgL00000Af3H7	Deploy: Succeeded	9/24/2025, 12:51 PM
<a href="#">View Details</a>	0AfgL00000Af0sj	Deploy: Succeeded	9/24/2025, 12:33 PM
<a href="#">View Details</a>	0AfgL00000Af0MU	Deploy: Succeeded	9/24/2025, 12:26 PM
<a href="#">View Details</a>	0AfgL00000Aeyfd	Deploy: Succeeded	9/24/2025, 12:10 PM
<a href="#">View Details</a>	0AfgL00000AXvmY	Deploy: Succeeded	9/22/2025, 1:05 PM
<a href="#">View Details</a>	0AfgL00000AXr30	Deploy: Succeeded	9/22/2025, 12:48 PM
<a href="#">View Details</a>	0AfgL00000AXfpp	Deploy: Succeeded	9/22/2025, 10:48 AM
<a href="#">View Details</a>	0AfgL00000AXMGw	Deploy: Succeeded	9/22/2025, 10:12 AM
<a href="#">View Details</a>	0AfgL00000AX6s8	Deploy: Succeeded	9/22/2025, 8:36 AM
<a href="#">View Details</a>	0AfgL00000AXLeD	Deploy: Succeeded	9/22/2025, 8:13 AM

Previous (1 - 10 of 20) [Next](#)