



# Phase 8: Data Management & Deployment – CampusConnect



## Overview

Phase 8 focuses on managing demo data, maintaining data integrity, backing up information, and deploying the CampusConnect configurations professionally using Salesforce tools and VS Code/SFDX.

## 1 Data Import & Bulk Upload

### Demo Data Included:

- [data/demo-students.csv](#) → 50 student records
- [data/bulk-events.csv](#) → 50 event records
- [data/bulk-attendance.csv](#) → 100+ attendance records

### Tools:

- **Data Import Wizard** → UI-based import for Students
- **Data Loader** → Bulk upload for Events & Attendance

Data Import Wizard landing page

Mapping fields for CSV → Salesforce fields

Confirmation page showing number of records inserted

The screenshot shows the Salesforce Bulk Data Load Jobs page. The main section displays details for a job with ID 759gLO0000E94Is, submitted by 'Bulk\_Upload'. The job is in a 'Closed' state. The table below shows the progress of the job, including the number of records processed and the status of the batches.

Job ID	Submitted By	Job Type	Bulk V1	Status	Closed
759gLO0000E94Is	Bulk_Upload	Operation	Insert	Total Processing Time (hrs)	177
Start Time	9/25/2025, 10:50 PM PST	Queued Batches	0	API Active Processing Time (hrs)	87
End Time	9/25/2025, 10:50 PM PST	In Progress Batches	0	API Active Processing Time (hrs)	3
Time to Complete (hh:mm:ss)	00:01	Completed Batches	1	API Active Processing Time (hrs)	
External ID Field	Attendance	Failed Batches	0	Progress	100 %
Content Type	CSV	Records Processed	51	Records Failed	0
Concurrency Mode	Parallel	Records Failed	0	Retries	0
API Version	64.0				

View Request	View Result	Batch ID	Start Time	End Time	Total Processing Time (hrs)	API Active Processing Time (hrs)	API Active Processing Time (hrs)	Records Processed	Records Failed	Retry Count	State Message	Status
<a href="#">View Request</a>	<a href="#">View Result</a>	751gl00000he0f	9/25/2025, 10:50 PM	9/25/2025, 10:50 PM	177	87	3	51	0	0		Completed

[←](#) [→](#) [↺](#) [orgfarm-7547270ec7-dev-ed.develop.lightning.force.com/lightning/setup/AsyncApiJobStatus/page?address=%2F750gL00000E96CbQAJ](#)

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Setup
Home
Object Manager ▾

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Data Import Wizard

Integrations

- Data Import Wizard

Didn't find what you're looking for?  
Try using Global Search.

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**Bulk Data Load Jobs**

Bulk Data Load Job  
**750gL00000E96Cb**

View the details of a bulk data load job.

[← Back to List: Bulk Data Load Jobs](#)

**Bulk Data Load Job Detail** [Reload](#)

Job ID	750gL00000E96Cb	Job Type	Bulk V1	Status	Closed
Submitted By	<a href="#">Gaurav Garote</a>	Operation	Insert	Total Processing Time (ms)	295
Start Time	9/25/2025, 10:45 PM PST	Queued Batches	0	API Active Processing Time (ms)	235
End Time	9/25/2025, 10:45 PM PST	In Progress Batches	0	Apex Processing Time (ms)	137
Time to Complete (hh:mm:ss)	00:01	Completed Batches	1		
Object	Event	Failed Batches	0		
External ID Field		Progress	100 %		
Content Type	CSV	Records Processed	50		
Concurrency Mode	Parallel	Records Failed	0		
API Version	64.0	Retries	0		

[Reload](#)

**Batches**

View Request	View Result	Batch ID	Start Time	End Time	Total Processing	API Active Processing	Apex Processing	Records Processed	Records Failed	Retry Count	State Message	Status
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### Duplicate Rules Configured:

The screenshot shows the Salesforce Setup interface. The top navigation bar includes the Setup icon, Home link, Object Manager dropdown, and a Search Setup field. On the right are utility icons for favorites, workspace, help, settings, notifications, and profile. The left sidebar contains a search bar for 'Duplicate Rules' and a navigation menu with links to Data, Duplicate Management, and Duplicate Rules (which is highlighted). Below the sidebar is a message about Global Search.

## Duplicate Rules

### All Duplicate Rules

[Help for this Page](#)

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

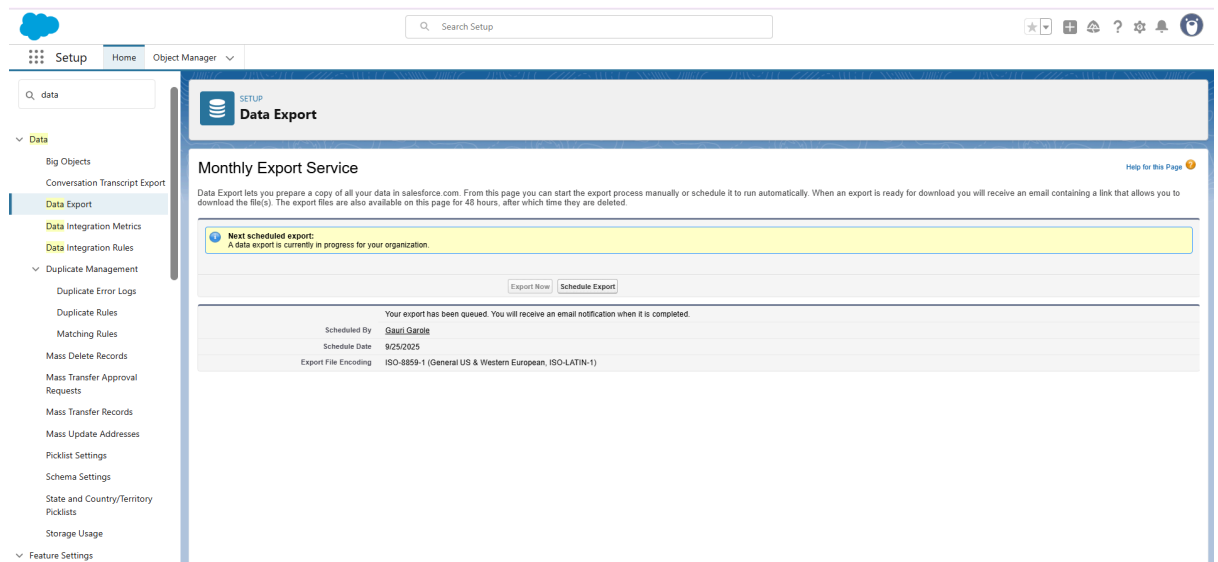
View: [All Duplicate Rules](#)

Rule Name ↑	Description	Object	Matching Rule	Active	Last Modified By	Last Modified Date
<a href="#">Standard Account Duplicate Rule</a>	Identify accounts that duplicate other accounts.	Account	<a href="#">Standard Account Matching Rule</a>	✓	DEPIC	7/21/2025
<a href="#">Standard Contact Duplicate Rule</a>	Identify contacts that duplicate other contacts and leads.	Contact	<a href="#">Standard Contact Matching Rule</a>	✓	DEPIC	7/21/2025
<a href="#">Standard Lead Duplicate Rule</a>	Identify leads that duplicate other leads and contacts.	Lead	<a href="#">Standard Contact Matching Rule</a> <a href="#">Standard Lead Matching Rule</a>	✓	DEPIC	7/21/2025

## 3 Data Export & Backup

### Automated Backup:

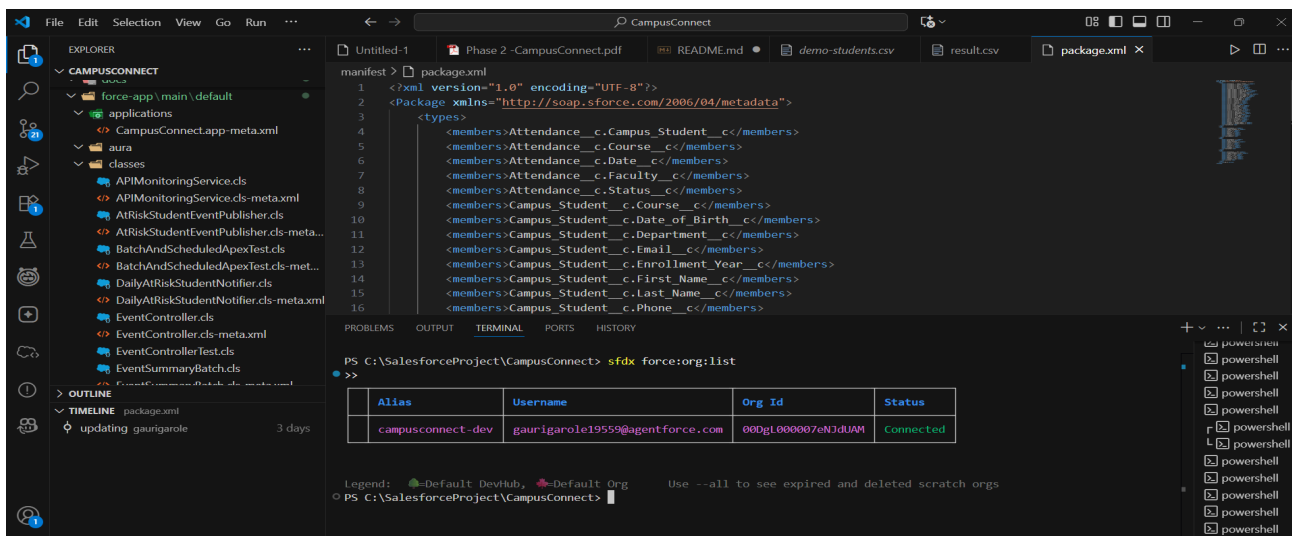
- `scripts/weekly-backup.ps1` → Powershell automation
- Exports all key objects (Students, Events, Attendance)
- Compressed files with summary reports
- Restore steps documented



## 4 Deployment Tools & Methods

### VS Code & SFDX:

- Core app, LWCs, FlexiPages deployed using SFDX commands
- Professional deployment practices with metadata tracking



## Change Sets:

- Not used for this practice project (Sandbox → Production not required)

## Packages:

- **Unmanaged Package** → used for internal testing and deployment
- **Managed Package** → optional if publishing on AppExchange

## ANT Migration Tool:

- Optional for command-line deployments

Succeeded			
Action	Name	Status	Date
<a href="#">View Details</a>	0A9gL00000A1U6	✓ Deploy: Succeeded	9/25/2025, 10:02 AM
<a href="#">View Details</a>	0A9gL00000A13qr	✓ Deploy: Succeeded	9/25/2025, 10:02 AM
<a href="#">View Details</a>	0A9gL00000A13kQ	✓ Deploy: Succeeded	9/25/2025, 10:02 AM
<a href="#">View Details</a>	0A9gL00000A13kP	✓ Deploy: Succeeded	9/25/2025, 10:01 AM
<a href="#">View Details</a>	0A9gL00000A13in	✓ Deploy: Succeeded	9/25/2025, 10:01 AM
<a href="#">View Details</a>	0A9gL00000A12DG	✓ Deploy: Succeeded	9/25/2025, 10:01 AM
<a href="#">View Details</a>	0A9gL00000A10GI	✓ Deploy: Succeeded	9/25/2025, 10:01 AM
<a href="#">View Details</a>	0A9gL00000A1hxFD	✓ Deploy: Succeeded	9/25/2025, 9:59 AM
<a href="#">View Details</a>	0A9gL00000A11fO	✓ Deploy: Succeeded	9/25/2025, 9:58 AM
<a href="#">View Details</a>	0A9gL00000A1haKE	✓ Deploy: Succeeded	9/25/2025, 5:52 AM

## 5 Verification in Salesforce

### Check Demo Data:

- **Students Tab** → 50 demo student records
- **Events Tab** → 50 event records
- **Attendance Tab** → 100+ attendance records with correct mapping

### Check Duplicate Rules:

- Setup → Duplicate Rules → verify Student Email, Student Number, Course Code rules are active

Attendance Records			
All			
50+ items • Sorted by Attendance ID • Updated a few seconds ago			
<input type="checkbox"/>	Attendance ID ↑		
1	100		
2	Accurate measurements		
3	Active lab participation		
4	Arrived 10 minutes late		
5	Artistic vision clear		
6	Asked insightful questions		
7	Asked relevant questions		
8	Careful lab technique		
9	Caught up on material		
10	Completed bonus problems		
11	Completed lab assignment		
12	Completed lab exercise		
13	Completed reading assignment		
14	Completed specimen analysis		
15	Completed synthesis		
16	Complete calculations		

The top screenshot displays the 'Events' page in the CampusConnect application. It features a navigation bar at the top with the 'CampusConnect' logo and various menu items. Below the navigation bar, there is a search bar and a 'Click to go back, hold to see history' button. The main content area shows a list of 52 items, sorted by Event Name, with a 'New' button and a 'Printable View' button. The list includes items like 'Academic Success Workshop', 'Alumni Homecoming Game', 'Art Exhibition Opening', 'Biology Lab Safety Training', 'Business Networking Mixer', 'Campus Blood Drive', 'Career Fair 2024', 'Chemistry Lab Practical', 'Coding Competition', 'Community Garden Planting', 'Computer Science Workshop', 'Creative Writing Workshop', 'Cultural Heritage Festival', 'Dance Performance Showcase', 'Earth Day Campus Cleanup', 'Economics Case Study Workshop', 'Engineering Design Competition', 'Environmental Science Field Trip', and 'Finals Week Study Sessions'.

The bottom screenshot displays the 'Students' page in the CampusConnect application. It features a navigation bar at the top with the 'CampusConnect' logo and various menu items. Below the navigation bar, there is a search bar and a 'Click to go back, hold to see history' button. The main content area shows a list of 50+ items, sorted by Student Name, with a 'New' button and a 'Printable View' button. The list includes items like 'Alexis', 'Amanda', 'Andrew', 'Ashley', 'Austin', 'Blake', 'Brandon', 'Brittany', 'Cameron', 'Chelsea', 'Christopher', 'Courtney', 'Daniel', 'Danielle', 'David', 'Emily', 'Eric', 'gauri-demo', and 'Hannah'.

## Check Backup & Logs:

- Folder or server location showing weekly backups
- Log reports showing successful execution

## 7 Conclusion

Phase 8 ensures **CampusConnect** has production-ready data management with:

- Demo data ready for testing
- Duplicate prevention for data integrity
- Automated weekly backup with restore capability

- Deployment using VS Code & SFDX following best practices
- Clear documentation for all manual and automated processes