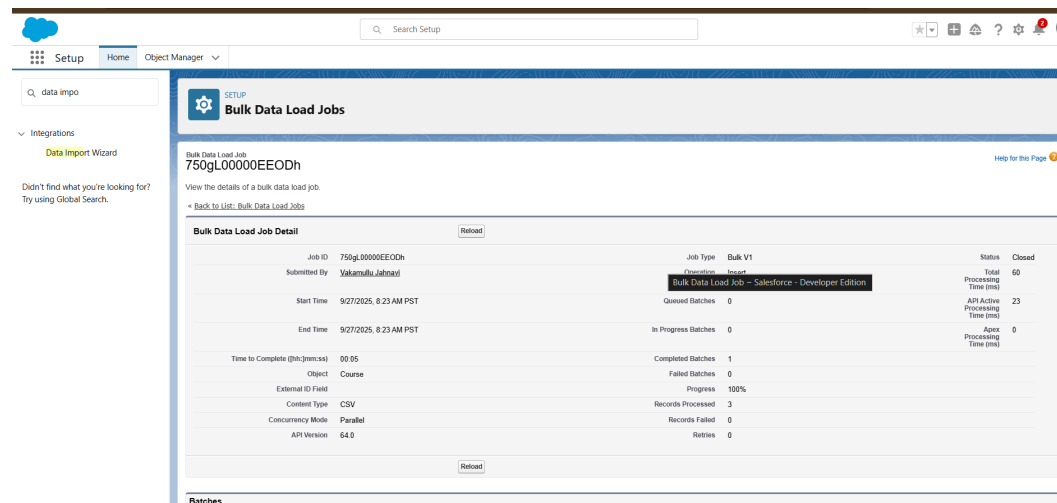


# Phase 8: Data Management & Deployment

Salesforce provides several tools and methods for managing data and deploying configurations. Below is an overview of each feature, along with its relevance to your project.

## 1. Data Import Wizard

- **Description:** Web-based tool for importing records into standard or custom objects.
- **Relevance:** ☒ Useful – allows bulk import of Students, Courses, and Enrollments without manual entry.




## 2. Data Loader

- **Description:** Desktop application for bulk import, update, or export of Salesforce records.
- **Relevance:** useful for large datasets; not necessary for small sample project data.


## 3. Duplicate Rules

- **Description:** Prevents duplicate records in Salesforce by defining matching criteria.
- **Relevance:** ensures no duplicate Students or Courses are created.


## 4. Data Export & Backup

- **Description:** Export Salesforce data for backup or offline use.
- **Relevance:**  Optional – good practice to keep a backup of your project data.


## 5. Change Sets

- **Description:** Deploy metadata (objects, fields, reports, etc.) between Salesforce orgs.
- **Relevance:**  Not required – project is contained in a single org.


## 6. Unmanaged vs Managed Packages

- **Description:** Packages for distributing Salesforce components; Managed packages allow upgrades.
- **Relevance:**  Not required – project is standalone and does not need distribution.

## 7. ANT Migration Tool

- **Description:** Command-line tool for deploying metadata between Salesforce orgs.
- **Relevance:**  Not required – only needed for complex deployment scenarios.

## 8. VS Code & SFDX

- **Description:** Development tools for Salesforce coding, metadata management, and source-driven development.
  - **Relevance:**  Not required – unless you are writing Apex or deploying to multiple orgs.
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