# Phase 8: Salesforce Data Management & Deployment Tools

## Data Import Wizard

The Data Import Wizard is a Salesforce tool for importing simple data like accounts, contacts, leads, and custom objects via a guided UI. It is best suited for small data volumes and non-technical users.

## Data Loader

Data Loader is a client application that allows bulk import, update, delete, or export of Salesforce data. It is more powerful than the Data Import Wizard and supports automation via command-line interface.

## Duplicate Rules

Duplicate Rules help maintain data integrity by preventing or alerting users when duplicate records are being created. They can be configured with matching rules to define what constitutes a duplicate.

## Data Export & Backup

Salesforce provides data export tools for backup purposes. Data Export Service allows manual or scheduled exports, while third-party tools or APIs can also be used for continuous backups.

## Change Sets

Change Sets are a point-and-click deployment tool used to move metadata between Salesforce environments (e.g., Sandbox to Production). They support declarative changes but not all metadata types.

## Unmanaged vs Managed Packages

Managed Packages are controlled and upgradable by the publisher, typically used for AppExchange apps. Unmanaged Packages are used for distributing open-source or ad-hoc components without upgrade paths.

## ANT Migration Tool

The ANT Migration Tool is a command-line utility based on Apache ANT, used for deploying metadata between Salesforce environments. It is suited for complex, scripted deployments and CI/CD pipelines.

## VS Code & SFDX

Visual Studio Code with Salesforce DX (SFDX) extensions is the modern development environment for Salesforce. It supports source-driven development, scratch orgs, and seamless integration with Git and CI/CD workflows.