# Phase 8: Data Management & Deployment

#### Introduction

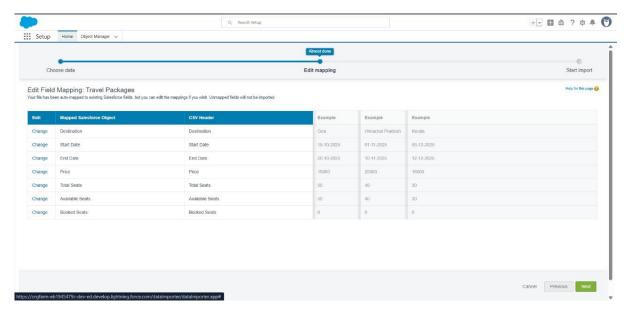
In this phase, we focus on data handling (import, export, deduplication, backup) and deployment (moving metadata from Dev/Sandbox to Production). The goal is to ensure clean travel package, booking, and customer data, reliable backups, and smooth deployments for the **TourEase Travel & Tourism Booking System**.

#### 1. Data Import Wizard

The Data Import Wizard is used for importing small to medium datasets (up to 50,000 records). For our project, we used it to import initial Travel Packages and Customer records.

#### Steps:

- 1. Go to Setup → Data Import Wizard → Launch Wizard.
- 2. Select the custom object **Travel\_Package\_\_c**.
- 3. Upload the prepared **TravelPackages.csv** file (with Package Name, Destination, Start Date, End Date, Price, and Total Seats).
- 4. Map CSV fields to Salesforce fields.
- 5. Choose record owner option  $\rightarrow$  "Use values from CSV" (we used Salesforce User Email).
- 6. Run Import  $\rightarrow$  verify in the **Travel Packages** tab.



### 2. Data Loader

For larger datasets (above 50,000 records), Data Loader is used. In our project, this is useful for bulk imports of **Bookings** and **Customer Records**.

### Steps:

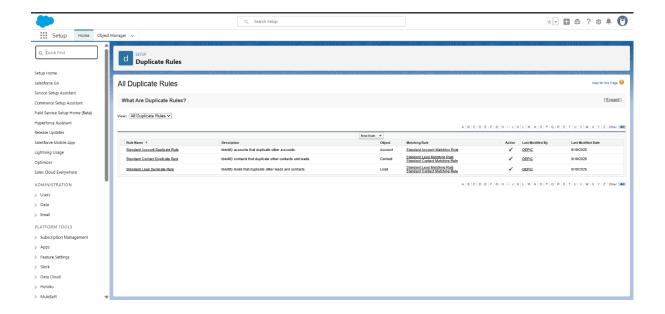
- 1. Download & install Salesforce Data Loader.
- 2. Login with Salesforce credentials (Sandbox first).
- 3. Choose **Insert** operation.
- 4. Select object (e.g., Booking\_\_c).
- 5. Upload CSV file and map fields.
- 6. Run import and review logs for success/failure.

# 3. Duplicate Rules

To prevent duplicate customer records (same email address or phone number), we created a Matching Rule and Duplicate Rule.

#### Steps:

- 1. Setup  $\rightarrow$  Quick Find  $\rightarrow$  Matching Rules  $\rightarrow$  New.
  - o Object: **Customer\_\_c** (or Contact).
  - Matching Field: Email or Phone.
  - Save & Activate.
- 2. Setup  $\rightarrow$  Quick Find  $\rightarrow$  **Duplicate Rules**  $\rightarrow$  **New**.
  - Object: Customer\_\_c.
  - Matching Rule: Customer\_Email\_ExactMatch.
  - Action: Block or Allow but Alert.
  - Save & Activate.

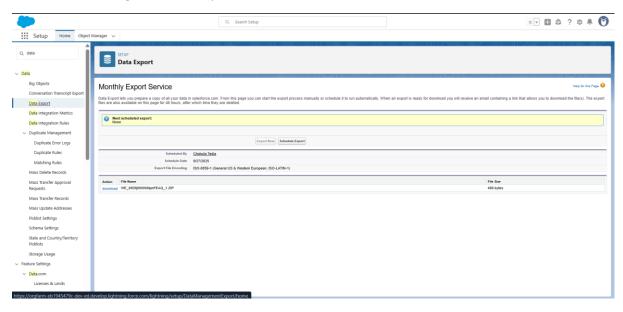


# 4. Data Export & Backup

Regular data backups are essential for compliance and recovery.

#### Steps:

- 1. Setup  $\rightarrow$  Quick Find  $\rightarrow$  Data Export.
- 2. Select objects: Travel\_Package\_\_c, Booking\_\_c, Customer\_\_c, Payment\_\_c.
- 3. Schedule export weekly (e.g., Saturday at midnight).
- 4. Salesforce generates a .zip file and sends a download link via email.



## 5. Unmanaged vs Managed Packages

For project sharing:

- **Unmanaged Package**: best for portfolios, training, and demos. Recipients can edit the components.
- Managed Package: locked, versioned, used for AppExchange distribution.

We used an **Unmanaged Package** for the TourEase project.

## 6. SFDX & VS Code Deployment (Best Practice)

While Change Sets are beginner-friendly, Salesforce DX (SFDX) with VS Code is best practice for developers.

#### Steps:

- 1. Install VS Code + Salesforce Extension Pack.
- 2. Authenticate Org:

- 3. sfdx auth:web:login -a DevOrg
- 4. Pull metadata:
- 5. sfdx force:source:pull
- 6. Deploy to target org:
- 7. sfdx force:source:deploy -p force-app
- 8. Track changes with GitHub for version control.

## Conclusion

Phase 8 ensures that the TourEase Travel & Tourism Booking System is:

- Data-ready (imported & deduplicated),
- Secure (backups scheduled),
- **Deployment-ready** (Change Sets / Unmanaged Package / SFDX).

With clean data and reliable deployment methods, the project is now stable for production rollout.