

Lab Exercise 7- Create a New DMO from Two DMOs in Salesforce Data Cloud

Objective

You will:

1. Create **two CSV datasets**
 2. Ingest both into Data Cloud as **DLOs**
 3. Create **two DMOs** from these DLOs (Customer_DMO and Order_DMO)
 4. Join both DMOs into a **new unified DMO** (Customer_Order_DMO)
 5. Validate and explore the merged data
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Part 1 — Download & Prepare Datasets

You'll need two datasets:

- **Customers.csv** → Basic customer details
 - **Orders.csv** → Purchase transactions
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Dataset 1 — Customers.csv

customer_id	first_name	last_name	email	phone	city	country
C001	John	Doe	john@example.com	+12125550001	New York	US
C002	Alice	Smith	alice@example.com	+442070313000	London	UK
C003	Maria	Lopez	maria@example.com	+55115550001	São Paulo	BR
C004	Bob	Lee	bob@example.com	+918527000001	Mumbai	IN

Dataset 2 — Orders.csv

order_id	customer_id	order_date	product	amount	status
O1001	C001	2025-10-10	Laptop	1200	Delivered
O1002	C001	2025-10-20	Mouse	25	Delivered
O1003	C002	2025-10-22	Monitor	400	Pending
O1004	C003	2025-10-23	Keyboard	80	Delivered
O1005	C004	2025-10-25	Headphones	150	Cancelled

Part 2 — Create Two Data Lake Objects (DLOs)

Step 1: Create Customer DLO

1. Navigate to **Data Manager** → **Data Streams** → **Upload File**
2. Upload **Customers.csv**
3. Set DLO name: CUSTOMERS_DLO
4. Primary Key: customer_id
5. File format: CSV (Header Row)
6. Run ingestion

After success → verify under **Data Lake Objects**

Step 2: Create Orders DLO

1. Upload **Orders.csv**
2. DLO Name: ORDERS_DLO
3. Primary Key: order_id

4. File type: CSV

Verify under **Data Lake Objects**

Part 3 — Create DMOs from DLOs

Step 3A: Create CUSTOMERS_DMO

1. Go to **Data Model** → **Data Model Objects**
2. Name: CUSTOMERS_DMO
3. Description: “Standardized customer information model”
4. Source: CUSTOMERS_DLO
5. Map fields:

DLO Field	DMO Field	Data Type
customer_id	Customer ID	Text
first_name	First Name	Text
last_name	Last Name	Text
email	Email Address	Email
phone	Phone	Text
city	City	Text
country	Country	Text

6. Save and **Activate**.
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Step 3B: Create ORDERS_DMO

1. Go to **Data Model**
2. Name: ORDERS_DMO
3. Description: “Transactional order data”
4. Source: ORDERS_DLO
5. Map fields:

DLO Field	DMO Field	Data Type
order_id	Order ID	Text
customer_id	Customer ID	Text
order_date	Order Date	Date
product	Product	Text
amount	Amount	Number
status	Status	Text

6. Save and **Activate**.

You now have two active DMOs.

Part 4 — Create New DMO (Join Two DMOs)

We'll now create a **third DMO** that joins customer and order data.

Step 4: Create CUSTOMER_ORDER_DMO

1. Go to **Data Model** → **+ New DMO**
 2. Name: CUSTOMER_ORDER_DMO
 3. Description: "Combined customer and order data"
 4. Source Type: **Join from existing DMOs**
 5. Choose:
 - **Primary Source:** CUSTOMERS_DMO
 - **Join Source:** ORDERS_DMO
 - **Join Key:** customer_id
 6. Define Join Type:
 - **Left Join (Recommended)** – to include all customers even if they have no orders.
 7. Select fields to include:
 - From CUSTOMERS_DMO: customer_id, first_name, last_name, email, city, country
 - From ORDERS_DMO: order_id, product, amount, order_date, status
 8. Save and **Activate**.
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Part 5 — Validate Unified DMO

Go to **Data Explorer** → **CUSTOMER_ORDER_DMO** → **Preview Data**