**Sample Datasets & Tables**

**1. Employee CSV Dataset (Employee\_CSV\_Dataset)**

File: employee\_data.csv

EmployeeID,FirstName,LastName,DepartmentID,Salary,LastModifiedDate

1,John,Doe,101,75000,2023-12-01 10:20:00

2,Jane,Smith,102,90000,2023-12-05 09:15:00

3,Michael,Brown,101,120000,2023-12-10 14:30:00

4,Linda,Johnson,103,60000,2023-12-12 16:10:00

5,David,Williams,104,110000,2023-12-15 12:45:00

6,Susan,Jones,102,85000,2023-12-20 08:05:00

**2. Department JSON Dataset (Department\_JSON\_Dataset)**

File: department\_data.json

[

{ "DepartmentID": 101, "DepartmentName": "Engineering" },

{ "DepartmentID": 102, "DepartmentName": "Finance" },

{ "DepartmentID": 103, "DepartmentName": "Human Resources" },

{ "DepartmentID": 104, "DepartmentName": "Marketing" }

]

**3. Sales CSV Dataset (Optional for ForEach / Triggers)**

File: sales\_data.csv

SaleID,EmployeeID,Amount,SaleDate

1001,1,2000,2023-12-01 11:00:00

1002,2,5000,2023-12-02 12:15:00

1003,3,7000,2023-12-03 13:30:00

1004,1,3000,2023-12-04 15:45:00

1005,4,2500,2023-12-05 09:20:00

**SQL Table Scripts**

You can create these in **Azure SQL Database** as sinks for ADF.

**Employee Table (Source)**

CREATE TABLE Employee (

EmployeeID INT PRIMARY KEY,

FirstName NVARCHAR(50),

LastName NVARCHAR(50),

DepartmentID INT,

Salary DECIMAL(18,2),

LastModifiedDate DATETIME

);

Insert data (same as CSV):

INSERT INTO Employee VALUES

(1,'John','Doe',101,75000,'2023-12-01 10:20:00'),

(2,'Jane','Smith',102,90000,'2023-12-05 09:15:00'),

(3,'Michael','Brown',101,120000,'2023-12-10 14:30:00'),

(4,'Linda','Johnson',103,60000,'2023-12-12 16:10:00'),

(5,'David','Williams',104,110000,'2023-12-15 12:45:00'),

(6,'Susan','Jones',102,85000,'2023-12-20 08:05:00');

**Department Table (Source)**

CREATE TABLE Department (

DepartmentID INT PRIMARY KEY,

DepartmentName NVARCHAR(100)

);

INSERT INTO Department VALUES

(101, 'Engineering'),

(102, 'Finance'),

(103, 'Human Resources'),

(104, 'Marketing');

**DeptSalarySummary (Sink)**

CREATE TABLE DeptSalarySummary (

DepartmentName NVARCHAR(100),

AvgSalary DECIMAL(18,2),

EmpCount INT

);

**HighSalaryEmployees (Sink)**

CREATE TABLE HighSalaryEmployees (

EmployeeID INT,

FullName NVARCHAR(100),

DepartmentName NVARCHAR(100),

Salary DECIMAL(18,2),

AnnualBonus DECIMAL(18,2)

);

**RegularSalaryEmployees (Sink)**

CREATE TABLE RegularSalaryEmployees (

EmployeeID INT,

FullName NVARCHAR(100),

DepartmentName NVARCHAR(100),

Salary DECIMAL(18,2),

AnnualBonus DECIMAL(18,2)

);

**Incremental Load Table (Sink in ADLS or SQL)**

CREATE TABLE EmployeeIncrementalLoad (

EmployeeID INT,

FirstName NVARCHAR(50),

LastName NVARCHAR(50),

DepartmentID INT,

Salary DECIMAL(18,2),

LastModifiedDate DATETIME

);