

Data Integration from FlatFile to Snowflake using Informatica Intelligent Cloud Services (IICS)

Data Sheet | LumenData

We need to migrate the data available in FlatFile to Snowflake using Informatica Intelligent Cloud Services (IICS). To achieve this, we need to create connectors for FlatFile and Snowflake in Informatica.

Creating connections in IICS

- In IICS -> ADMINISTRATOR-> Run time environments. Create the runtime environment.
- Once the environment is created, make sure it is up and running.
- Now, create connections for FlatFile and Snowflake in Administrator.
- Click on 'new connection.'

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Connections

Configure connections to work with applications, databases, and files.

Actions	Name	Type	Runtime Environment	Service URL
	bu7ofg	Salesforce	Informatica Cloud Hosted Agent	https://login.salesforce.com/services/Soap/u/55.0
	adapterOutbound	REST V2 (Informatica)	DESKTOP-U3M354K	
	Aditya-Laptop-Flat_file-Connection	Flat File	EC2AMAZ-SGMQE85	D:\Versant
	Aditya-linuxServer-FlatFileConnection	Flat File	Aditya-Secure-Agent	/work/SecureAgentDir
	AdityaK-FTP-Location	FTP	Aditya-Secure-Agent	ftp://www.myincrediblenetwork.com:2112//work
	AdityaKFlatfile_Connection	Flat File	Aditya-Secure-Agent	C:\Informatica_Secure_Agent_Reference\
	Ajaya_business_360	Business 360 (Informatica)	Ajaya_S_Secure_Agent_LDILAADCASR01	
	Ajaya_S_FF_Source	Flat File	Ajaya_S_Secure_Agent_LDILAADCASR01	C:\ICS_FF_Source
	Ajaya_S_Target_FF	Flat File	Ajaya_S_Secure_Agent_LDILAADCASR01	C:\ICS_TARGET_H
	Akm_Rest_HoDir_Org_T3	REST V2 (Informatica)	Akhya_KM_Secure_Agent	
	Ampa_FF	Flat File	Amp_SecureAgent	C:\Users\AishwaryaMaryP\OneDrive - LumenData, Inc\Documents\Lumenda
	AMB_Event	Business 360 Events (Informatica)	AMDEV_Secure_Agent	

- To create a FlatFile connection, we need to select the connection type as "FlatFile"
- In IICS, fill in all the details like Directory, Date Format, and Code Page.
- Once you have created the connection, click on the test environment, and save the connection.

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Test Connection Save

The test for this connection was successful.

Connection Details

Connection Name: Src_FF_Babu

Description:

Type: Flat File (Informatica)

Flat File (Informatica) Connection Properties

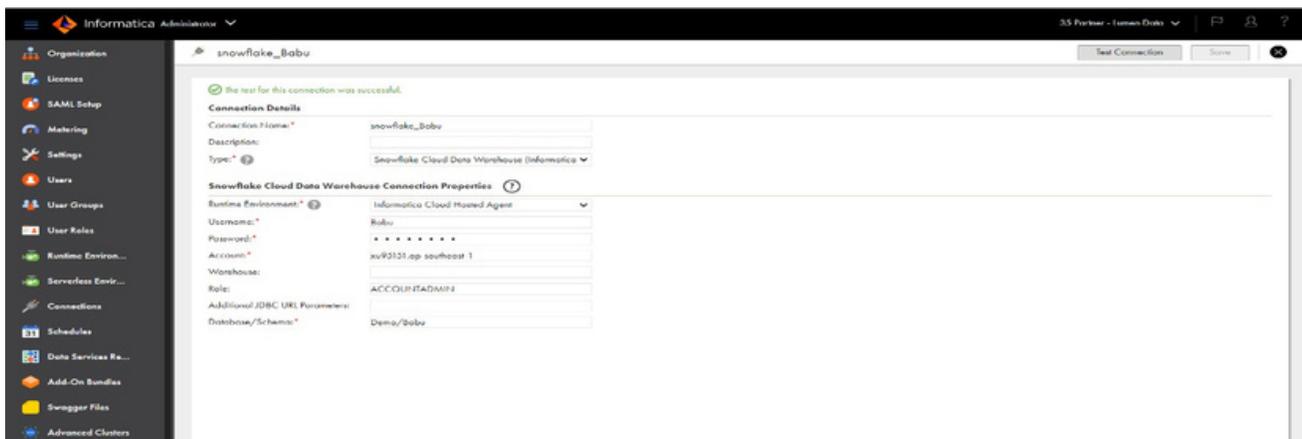
Runtime Environment: E.S.Babu

Directory: C:\Users\EchambadiSBabu\OneDrive - LumenData\Documents\FlatFile\src

Date Format: dd/MM/yyyy

Code Page: UTF-8

- Create one more connection for Snowflake.
- To create a Snowflake connection, we need to select the connection type as “Snowflake Cloud Data Warehouse (Informatica Cloud)”.
- We need to get the details like username, password, account, warehouse, role, database, and schema.
- Just fill in the appropriate details, test the environment, and save the connection



- In IICS, we have created a connection for FlatFile and Snowflake.

Data Preview in Flatfile

- If we want to preview the FlatFile data, we need to go to the source and preview the data.

Data Preview

Connection: Src_FF_Babu Object: Employee_1.csv

id	Name	Address
1	Gino Foye	PO Box 80243
2	Pippo Gulk	Room 138
3	Hazel Hardin	PO Box 55560
4	Luci Gilliland	Room 1437
5	Jeanette Blodgetts	Room 203
6	Farrah Laidler	Room 410
7	Bernette Duran	Suite 74
8	Lonnie Ellen	Apt 1327
9	Jaime Killen	Apt 705
10	Bunny Wintle	Suite 27

Display source fields in alphabetical order

Formatting Options... Done

Data Preview in Snowflake

- As we are migrating from FlatFile to Snowflake, we need to create a structure of the table in Snowflake with the help of the below query.

- create or replace table Employee(Employee_ID string(2),Employee_Name string(25),Employee_Address string(100));

The screenshot shows the Snowflake web interface. The query editor contains the following SQL code:

```
1 create database Demo;
2 create schema Babu;
3 create or replace table Employee(Employee_ID string(2),Employee_Name string(25),Employee_Address string(100));
```

The results pane shows a single row with the status: "Table EMPLOYEE successfully created." The query details on the right indicate a duration of 178ms and 1 row returned.

- In Snowflake, we don't insert any data as we are using IICS as a medium to migrate the data from FlatFile to Snowflake.
- We can preview the data in Snowflake using the below query. Select * from Employee;

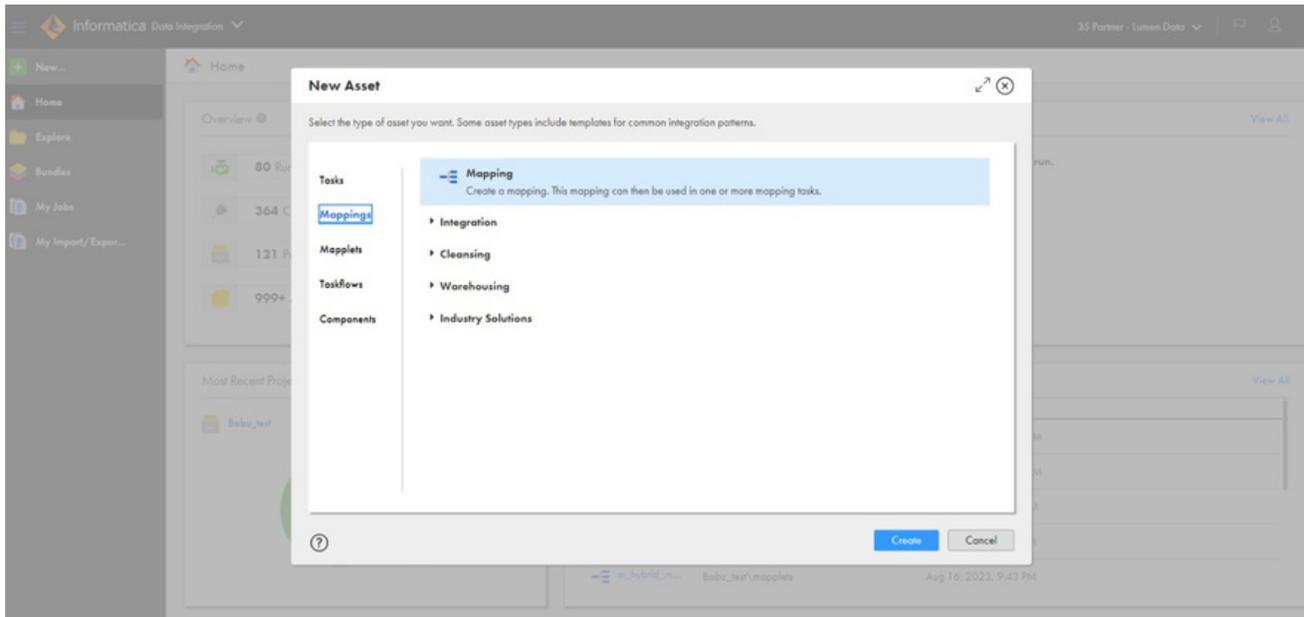
The screenshot shows the Snowflake web interface with the following SQL code in the query editor:

```
1 create database Demo;
2 create schema Babu;
3 create or replace table Employee(Employee_ID string(2),Employee_Name string(25),Employee_Address string(100));
4 select * from Employee;
```

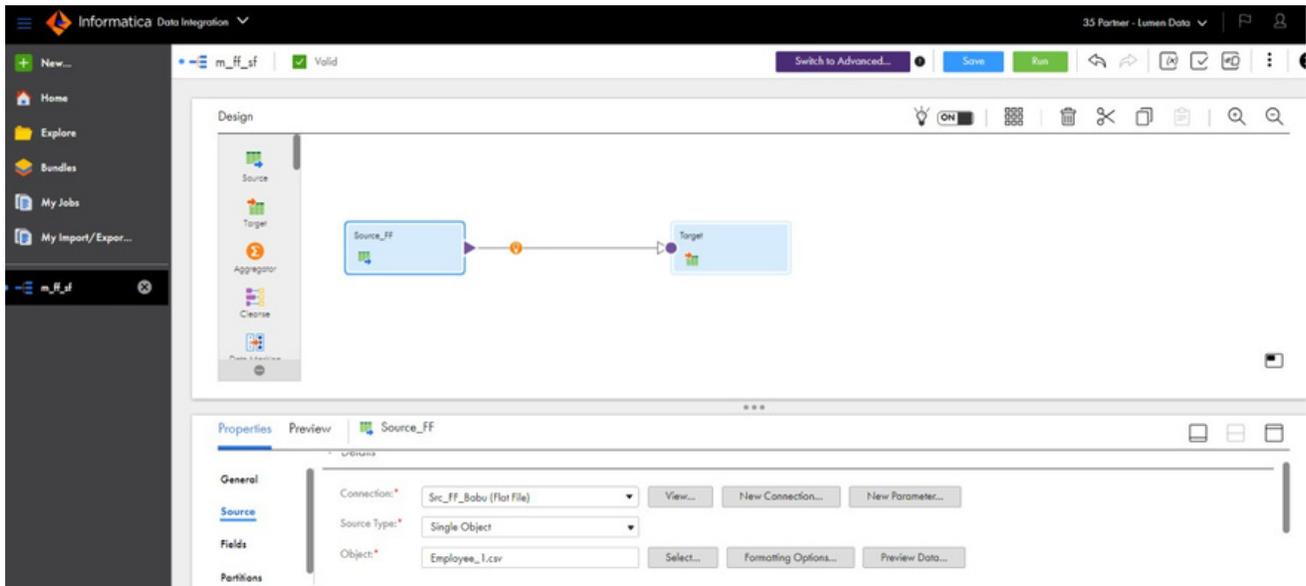
The results pane shows a table with three columns: EMPLOYEE_ID, EMPLOYEE_NAME, and EMPLOYEE_ADDRESS. Below the table, it states "Query produced no results." The query details on the right indicate a duration of 95ms and 0 rows returned.

Migrating data from FlatFile to Snowflake using IICS

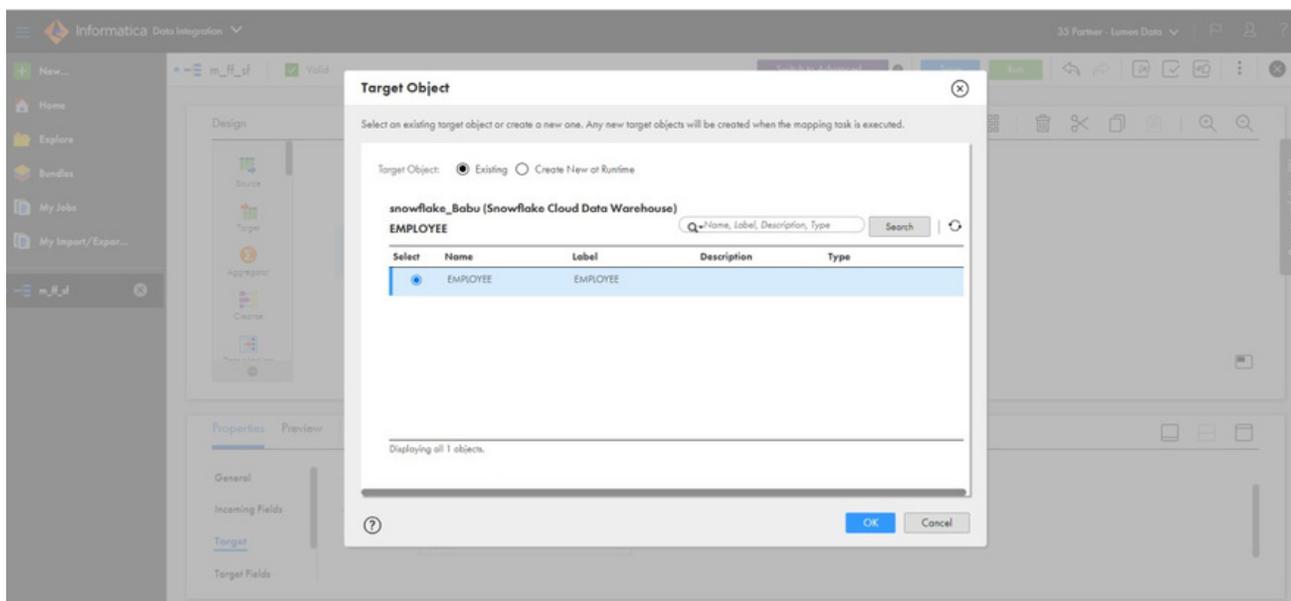
- As we have already created the connectors for FlatFile and Snowflake, we need to create a new mapping. Select IICS->Data Integration->new



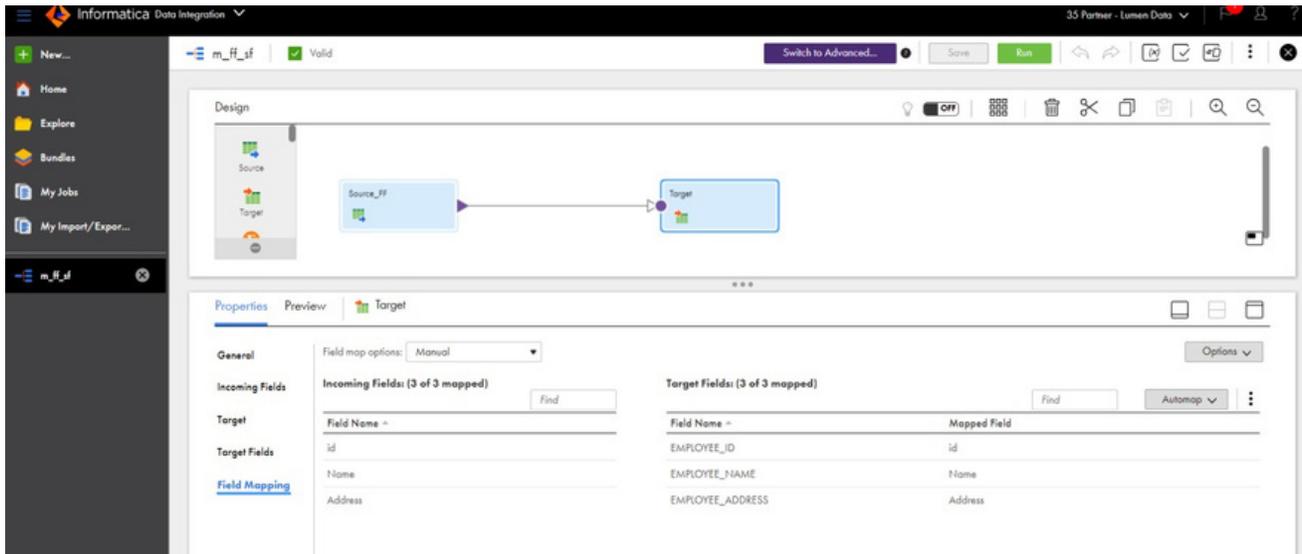
- Create new mapping under 'mapping' and rename it according to the job.
- Now select 'source' and fill in the details by selecting the view option.
- Fill in the connection details and the table name in the appropriate columns, as shown below.



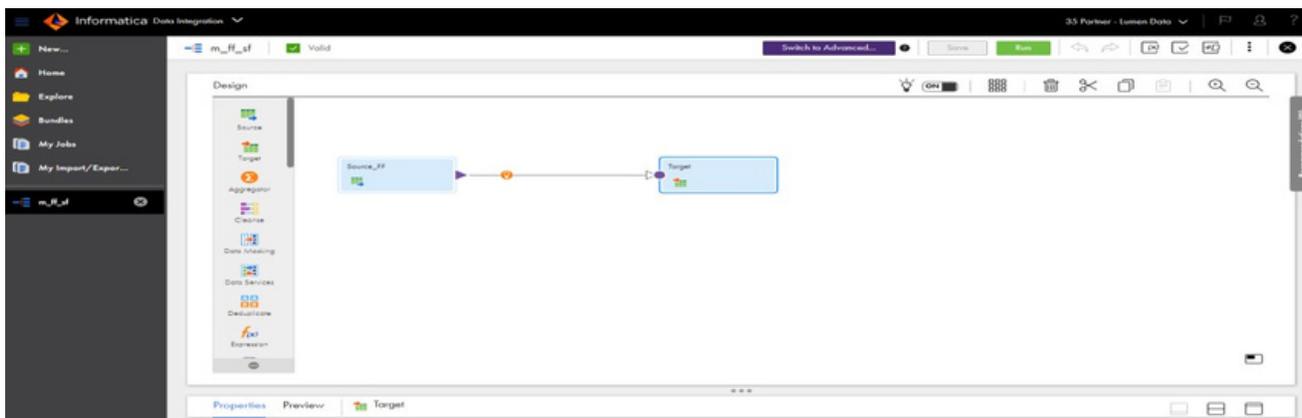
- Now, select the target and fill in the details by selecting the view option.
- Mention the connection details and the table name in the appropriate columns.
- In Target, if the table is created in Snowflake - select the table we previously created in Snowflake or create a new one here.



- If you have created a table in Snowflake, you should map the field mapping.



- Save the mapping and run it.



- Once you run the mapping, you should be able to see the job that you ran in the section IICS->Data integration ->my jobs
- Once the status is a success, you will see the table object in Snowflake.

Databases Worksheets

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DEMO.BABU Settings Latest Version

```

1 create database Demo;
2 create schema Babu;
3 create or replace table Employee(Employee_ID string(2),Employee_Name string(25),Employee_Address string(100));
4 select * from Employee;
5

```

Results Chart

	EMPLOYEE_ID	EMPLOYEE_NAME	EMPLOYEE_ADDRESS
1	1	Gino Foye	PO Box 80243
2	2	Pippo Gulik	Room 138
3	3	Hazel Hardin	PO Box 55560
4	4	Luci Gilliland	Room 1437
5	5	Jeanette Blodgetts	Room 203
6	6	Farrah Laidler	Room 410
7	7	Bernette Duran	Suite 74
8	8	Lonnie Ellen	Apt 1327
9	9	Jaime Killen	Apt 705
10	10	Bunny Wintle	Suite 27

Query Details

Query duration 49ms

Rows 10

Query ID 01af00e2-3200-dfad-9...

EMPLOYEE_ID

100% filled

ABOUT LUMENDATA:

LumenData is a leading provider of Enterprise Data Management, Cloud & Analytics solutions. We help businesses navigate their data visualization and analytics anxieties and enable them to accelerate their innovation journeys. Founded in 2008, with locations in multiple countries, LumenData is privileged to serve over 100 leading companies, including KwikTrip, Versant Health, US Food & Drug Administration, US Department of Labor, Cummins Engine, BCG, and others. LumenData is SOC2 certified and has instituted extensive controls to protect client data, including adherence to GDPR and CCPA regulations.

Get in touch to discuss how we can facilitate data-driven transformation for your organization.

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