

Salesforce DAGs

Overview

The DAGs produced in this section were some of the first DAGs made during the internship. The DAGs here are made for Contact objects and Account objects, which are native to Salesforce. The DAGs originally were made during May-June of 2026 and intended for use in the Sandbox environment which only used test data. As of July 31st, 2026, the DAGs are being refit to function in a production environment.

TODO: LINK HERE

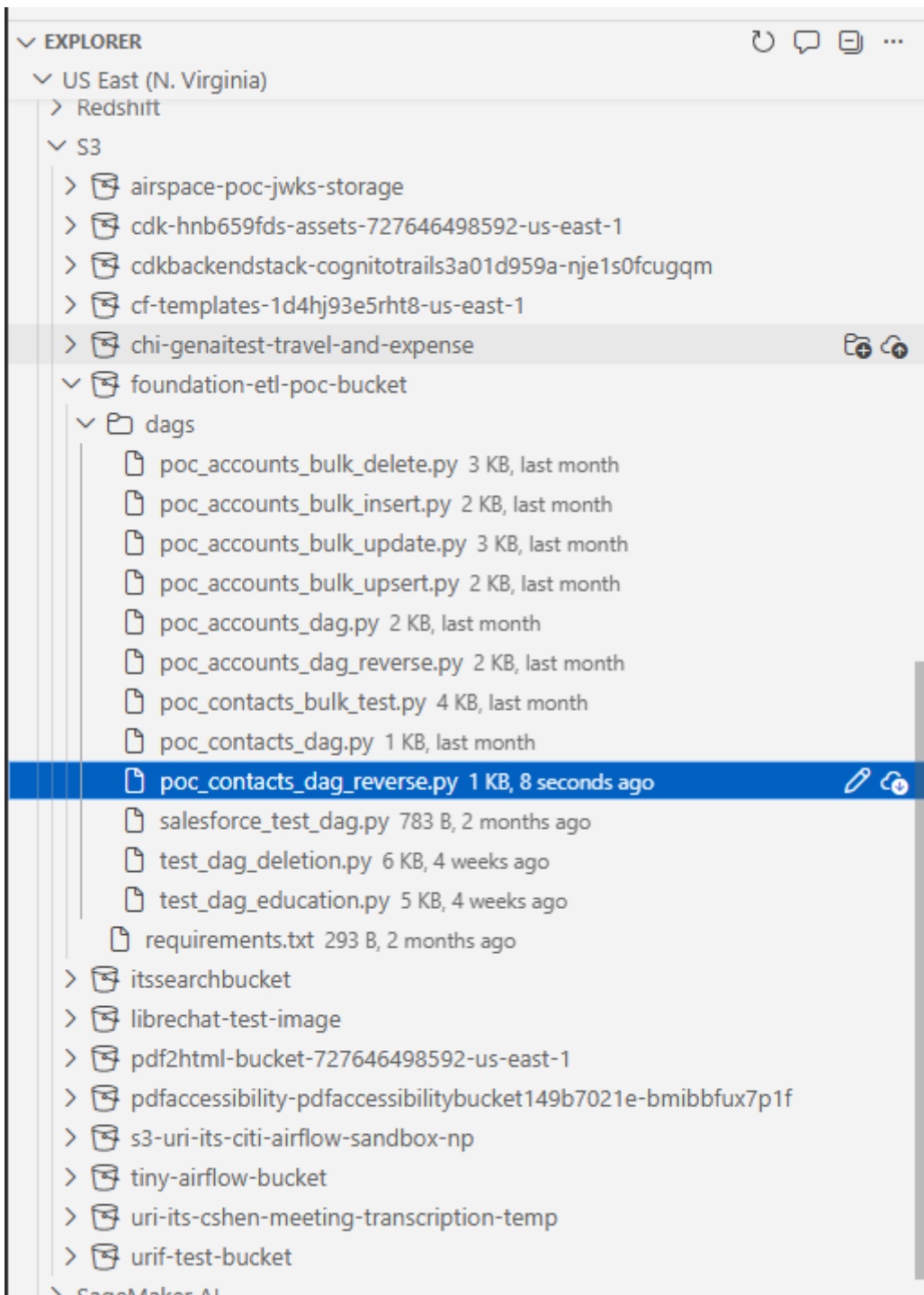
All of the code can be accessed in AWS and as well in the GitHub repository.

The general structure of each DAG is the following, each DAG follows an "ETL" or Extract, Transfer, Load design. Since PostgreSQL was chosen as one of the endpoints during the internship, data is fed between PostgreSQL or Salesforce and then fed into the intermediary service of Airflow. In Airflow, the data is "transformed" in whatever manner is necessary, and then is fed to the other service. If data was taken from PostgreSQL, then it would typically flow back out to Salesforce, and if data was taken from Salesforce it would generally go back to PostgreSQL.

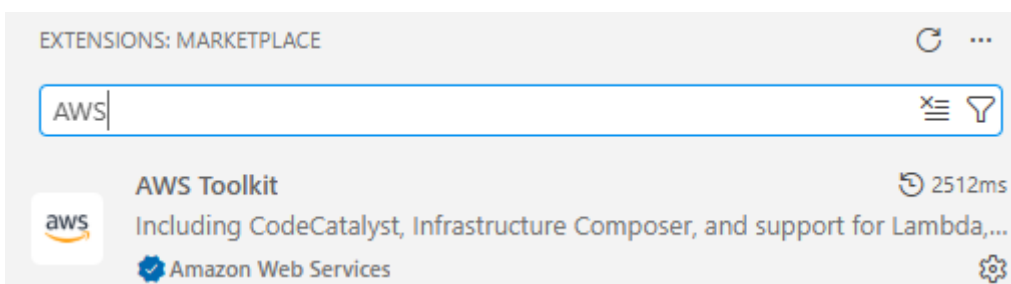
Many of the DAGs contain their own respective documentation, however additional documentation is added here such that they can be understood at a higher level and more context can be given with respect to their uses in Salesforce.

Visual Studio Code AWS Extension

The Visual Studio Code (VSC) extension for AWS makes modifying and creating existing DAGs extremely simple. The utility allows users to create, delete, upload, and modify files in AWS' file hierarchy as if it were a normal file explorer in VSC. For example consider the current working directory for DAGs:



More information about the plugin can be found [here](#). Installing the plugin in VSC and working with it is relatively simple. In VSC, the extension can easily be found by searching "**AWS**" into the extension marketplace. The top result "AWS Toolkit" should be installed.

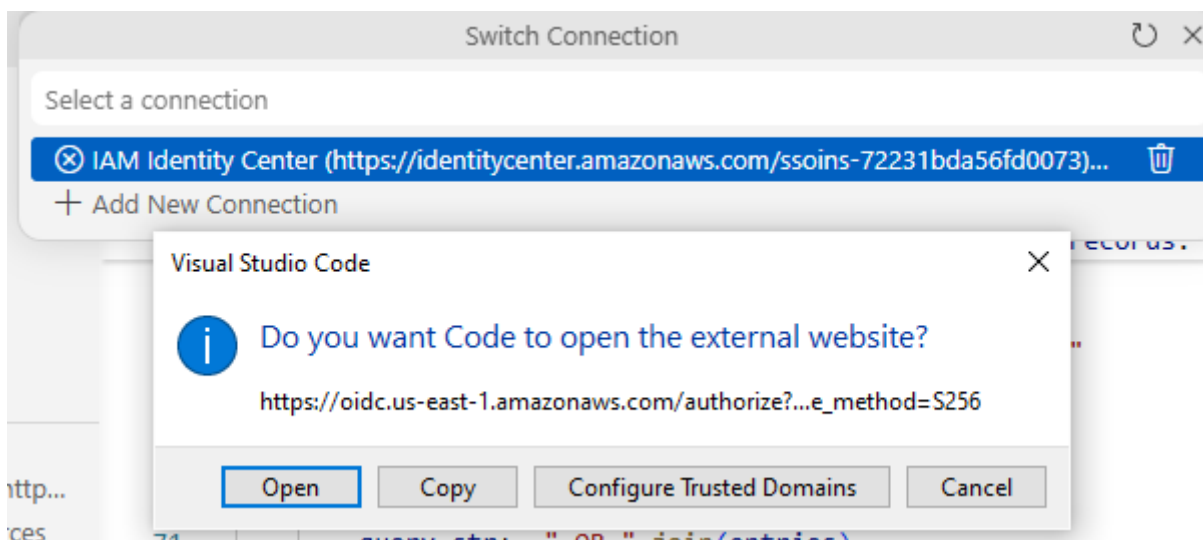


Once installed, there will appear an "AWS" icon on the bottom left sidebar of VSC. Click on it.

In order to sign in once the sign in process is configured, begin by heading into [myapps](#) in URI's SSO and select AWS. Next, on the bottom left hand corner of VSC there will appear a red bar. Click on that bar.



After clicking on the bar, a menu will bring up the option to access "**IAM Identity Center**", click on it. This will bring up a dialogue box with the option to open a link to AWS which will verify your credentials and permit you access to AWS' services through VSC again.



Once the site has been correctly accessed, the following screen will appear, which will allow the user to close it and return to VSC.



Request approved

AWS IDE Extensions for VS Code have been given requested permissions

You can close this window and start using AWS IDE Extensions for VS Code

Then, click IAM Identity Center again. If you have the corresponding permissions for AWS, then you should be able to hit AWS Full Permission, which at least should give you full access to AWS. Note that you will not be able to run Airflow inside this environment, merely modify files, delete them, and upload files in AWS from your VSC environment.

I have opted for the following file hierarchy for the Airflow environment (this will not change how it is viewed and accessed from inside Airflow) since it separates DAGs into their respective functions quite well:

```
S3 bucket (foundational-etl-poc-bucket)
|__ requirements.txt
|__ dags/
    |__ create_tables/
    |__ salesforce_dags/
        |__ account_dags/
        |__ contact_dags/
    |__ affinaquest_dags/
        |__ education_dags/
```

Bulk API

In Salesforce, there are four primary bulk operations, insertion, deletion, hard delete, updating, and upserting (update+inserting). Insertion adds a new entry to salesforce given some relevant fields about the object.

An object hard deleted in Salesforce is immediately deleted, whereas an object which is deleted in Salesforce lingers in the recycle bin for 15 days.

Airflow has bulk methods which make insertion and deletion of massive amounts of records efficient. I opted to use Simple Salesforce, which also has bulk operators that can be used in Airflow as well. For Further information on Bulk APIs in Simple Salesforce can be found here:

<https://github.com/simple-salesforce/simple-salesforce>

Rather than adding 50 objects individually, many are added at the same time. Each object in Salesforce has bulk methods. The bulk methods are all essentially identical in how they operate.

Test Connection DAG

This DAG simply tests that there is an existing Airflow connection and is entitled "salesforce_test_dag". This DAG is useful since it simply reads from Salesforce, which proves that Salesforce is connected without making any unexpected modifications to it or PostgreSQL. In the event that a connection must be re-established between Airflow and Salesforce, this DAG can be used to test that the connection is valid **safely**.

The DAG does not follow the ETL structure as it is just used to verify that a connection exists.

```
from datetime import datetime
from airflow.decorators import dag, task
from airflow.providers.salesforce.hooks.salesforce import SalesforceHook

@dag(
    dag_id="salesforce_test_dag",
    schedule=None,
    start_date=datetime(2026, 1, 1),
    catchup=False,
)
```

```
def salesforce_test_dag():

    @task
    def test_connection():
        hook = SalesforceHook()

        # Test with a simple query
        result = hook.make_query("SELECT Id, Name FROM Account LIMIT 5")

        print(f"Successfully connected to Salesforce!")
        print(f"Retrieved {len(result['records'])} accounts")

        for record in result["records"]:
            print(f"    - {record['Name']}")

        return result["records"]

    test_connection()

salesforce_test_dag()=6.3.0
```

Create Table DAGs

These aren't much DAGs as much as they are files inside Airflow which are run following executions of DAGs for the corresponding objects. The Contact object has an associated PostgreSQL table for extracting information, and for loading in Contact info from salesforce. These tables are respectively known as "[contact_extract](#)" and "[contact_load](#)" For the Accounts object there is a similar associated "[account_extract](#)" and "[account_load](#)" table in PostgreSQL.

Contact DAGs

[Contact objects in Salesforce](#) represent an individual associated with a business account, and as the name would suggest, contains that person's name, phone number, email address, and other useful fields by which that person can be contacted.

Currently the only fields supported in the Contact DAGs are, "FirstName", "LastName", "Email", and "MobilePhone". All of these fields are self explanatory. By default, every object in Salesforce has its

own unique ID, which is unique to each object. There is no strict uniqueness on any of these fields, and duplicate objects with the exact same fields can exist for Contacts.

An object's ID can be obtained via a SOQL query. [SOQL](#) is Salesforce's Query Language, which is similar to SQL in many respects but with notable differences such as lacking any wildcard operator (the symbol "*", for instance in the query "SELECT * From Contacts" to select all fields from Contacts). It is thus necessary to determine the identity of an object by writing queries which will select fields that **should** be unique in general, like a phone number or an email, or to match as many fields as possible against the objects.

Using a single field like a phone number or email has the benefit of making a much more readable and plain query to work with, whereas using all fields makes selection of elements much quicker and queries easier to write. Due to general limitations on the size of queries in SOQL of 100,000 characters, and for more readable queries, I opted to only select the emails of each test account.

There are some DAGs which do not make use of Bulk. Most of these DAGs are not practical and were made to show that code could be successfully executed in Airflow. The relevant DAGs at this time are "[poc_contacts_bulk_delete](#)", "[poc_contacts_bulk_insert](#)", "[poc_contacts_bulk_update](#)", "[poc_contacts_bulk_upsert](#)", and "[poc_contacts_dag_reverse](#)".

PostgreSQL For Contacts

There are two tables in the "[mock_snowflake](#)" PostgreSQL database for Contacts, namely a "[contacts_extract](#)" table for DAGs which begin in PostgreSQL and move data into Salesforce, and a "[contacts_load](#)" for DAGs which start in Salesforce and end in PostgreSQL. The queries used to write these tables are respectively, and are executed in Airflow from the "**build_contacts_tables**" DAG.

```
CREATE TABLE contacts_extract (  
    FirstName VARCHAR(255),  
    LastName VARCHAR(255),  
    Email VARCHAR(255),  
    MobilePhone VARCHAR(20)  
);
```

```
CREATE TABLE contacts_load (  
    FirstName VARCHAR(255),  
    LastName VARCHAR(255),  
    Email VARCHAR(255),  
    MobilePhone VARCHAR(20)  
);
```

Here is the resulting data for "**contacts_extract**" after it has been created:

```
snowflake_mock=# SELECT * FROM contacts_extract;
  firstname | lastname | email | mobilephone
-----+-----+-----+-----
 1_First_Name | 1_Last_Name | 1@gmail.com | +1-111-111-1111
 2_First_Name | 2_Last_Name | 2@gmail.com | +2-222-222-2222
 3_First_Name | 3_Last_Name | 3@gmail.com | +3-333-333-3333
 4_First_Name | 4_Last_Name | 4@gmail.com | +4-444-444-4444
(4 rows)
```

```
snowflake_mock=# SELECT * FROM contacts_load;
  firstname | lastname | email | mobilephone
-----+-----+-----+-----
(0 rows)
```

In order to reset both tables, run the "**build_contacts_tables**" DAG. It will drop either of the tables if detected, and reconstruct both tables with the above associated fields. Secondly, it will add in the default information into "contacts_extract".

Testing All Contact DAGs

In order to verify that all of the Contact DAGs are working, it is recommended that the DAGs are run in a specific order. Make sure that you know how to find and access these records in the frontend of Salesforce. It is vital that the records added to Salesforce are visible.

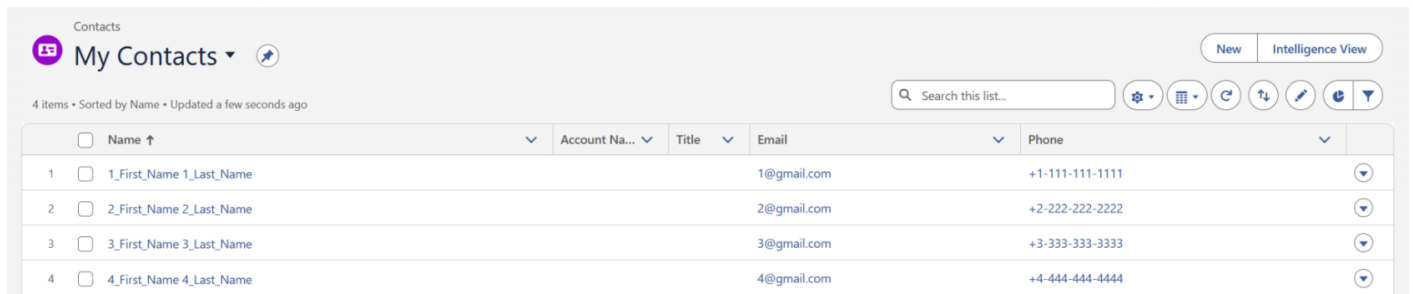
Begin with the "**build_contacts_tables**" table in order to reset the PostgreSQL table for loading and extracting. Secondly, run the "**poc_contacts_bulk_insert**" DAG. This will populate Salesforce with entries from the PostgreSQL load table. Secondly, run the "**poc_contacts_bulk_update**" DAG, this will change each DAG to have a different name indicating they were updated by this function. Thirdly, run "**poc_contacts_bulk_upsert**" which will add 4 entries to Salesforce and then modify the 4 existing entries. Fourthly, run "**poc_contacts_reverse**". Check the PostgreSQL database in the "**contacts_load**" page, it should include 5 different records that may or may not include the newly added information. Lastly, run the "**poc_contacts_bulk_delete**" DAG, which will remove all of the entries added during this test.

Bulk Contact Insert DAG

This DAG has tests that records from PostgreSQL can be uploaded to Salesforce. The ETL pipeline for this DAG is simple. We extract records from PostgreSQL, transform them to make sure the fields are comprehensible for the Salesforce API, and then we load them into Salesforce via bulk.

In order to verify that this DAG worked, all three tasks in the execution finish with a "success" status, go to the Salesforce page and look for the contact objects. There should at least be four, depending on whether or not previous records had been cleared from Salesforce.

These records at minimum should be under Contacts owned by the Airflow Account **TODO GET AIRFLOW ACCOUNT NAME**

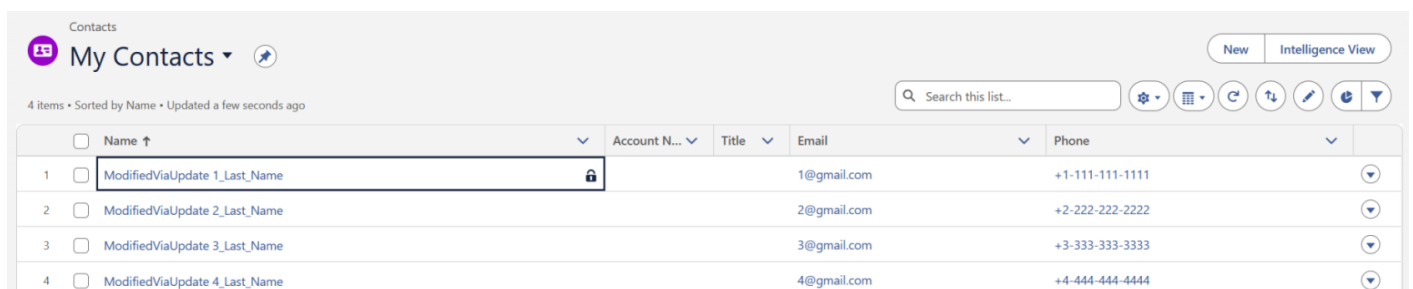


	Name ↑	Account Na...	Title	Email	Phone
1	1_First_Name 1_Last_Name			1@gmail.com	+1-111-111-1111
2	2_First_Name 2_Last_Name			2@gmail.com	+2-222-222-2222
3	3_First_Name 3_Last_Name			3@gmail.com	+3-333-333-3333
4	4_First_Name 4_Last_Name			4@gmail.com	+4-444-444-4444

Bulk Contact Update DAG

This DAG has tests that records from PostgreSQL already uploaded to Salesforce can have some of their fields modified. The ETL pipeline for this DAG is simple. We extract records from PostgreSQL, transform them to make sure the fields are comprehensible for the Salesforce API, and then we modify the "**FirstName**" field in Contacts and update them in Salesforce via bulk.

In order to verify that this DAG worked, all three tasks in the execution finish with a "success" status, go to the Salesforce page and look for the contact objects. Each contact object in PostgreSQL should have a "**FirstName**" field corresponding to "**ModifiedViaUpdate**". This obviously is meant to indicate that the Update DAG was responsible for this modification and not say insert or upsert.

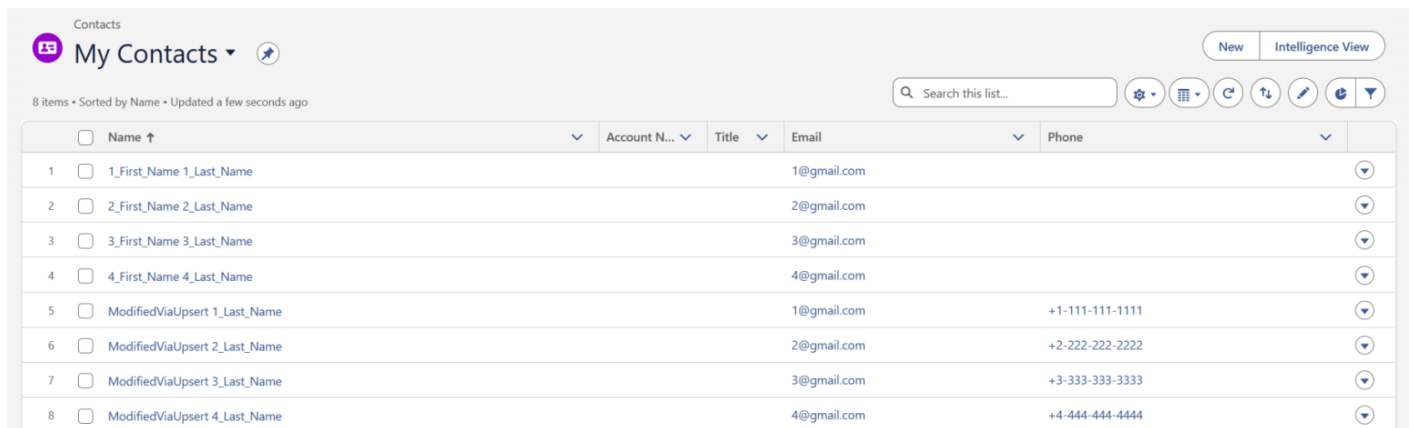


	Name ↑	Account N...	Title	Email	Phone
1	ModifiedViaUpdate 1_Last_Name			1@gmail.com	+1-111-111-1111
2	ModifiedViaUpdate 2_Last_Name			2@gmail.com	+2-222-222-2222
3	ModifiedViaUpdate 3_Last_Name			3@gmail.com	+3-333-333-3333
4	ModifiedViaUpdate 4_Last_Name			4@gmail.com	+4-444-444-4444

Bulk Contact Upsert DAG

This DAG has tests that records from PostgreSQL already uploaded to Salesforce can have some of their fields modified and also upload new records simultaneously. This DAG assumes that the insert function was run **previously**. If it was not run previously, then it will not be able to update records, only upload them. The ETL pipeline for this DAG is simple. We extract records from PostgreSQL, transform them to make sure the fields are comprehensible for the Salesforce API, and then we modify the "**FirstName**" field in Contacts and update them in Salesforce via bulk. We also add in the same four objects into Salesforce as insert.

In order to verify that this DAG worked, all three tasks in the execution finish with a "success" status, go to the Salesforce page and look for the contact objects. Each contact object in PostgreSQL should have a "**FirstName**" field corresponding to "**ModifiedViaUpsert**". There should be 4 more objects from PostgreSQL now too:



	Name ↑	Account N...	Title	Email	Phone
1	1_First_Name 1_Last_Name			1@gmail.com	
2	2_First_Name 2_Last_Name			2@gmail.com	
3	3_First_Name 3_Last_Name			3@gmail.com	
4	4_First_Name 4_Last_Name			4@gmail.com	
5	ModifiedViaUpsert 1_Last_Name			1@gmail.com	+1-111-111-1111
6	ModifiedViaUpsert 2_Last_Name			2@gmail.com	+2-222-222-2222
7	ModifiedViaUpsert 3_Last_Name			3@gmail.com	+3-333-333-3333
8	ModifiedViaUpsert 4_Last_Name			4@gmail.com	+4-444-444-4444

Contact Reverse DAG

This DAG tests if records from Salesforce can be loaded into PostgreSQL. The ETL pipeline for this DAG is simple. We extract records from Salesforce, transform them to make sure the fields are comprehensible for the PostgreSQL, and then we load them to PostgreSQL.

In order to verify that this DAG worked, all three tasks in the execution finish with a "success" status, SSH into the EC2 instance with the following command from Linux or WSL. You will need AWS permissions, and also need to have your IP/machine added to AWS for access in order to execute this series of commands:

```
ssh ubuntu@3.82.8.34
```

Once successfully inside, execute

```
sudo -u postgres psql
```

Which connects you to PostgreSQL. Secondly execute the following command to connect to the **snowflake_mock** table:

```
\c snowflake_mock
```

And lastly the following command to list all entries in that table:

```
SELECT * FROM contacts_load;
```

Note that your entries will likely **NOT** look the same. The only thing to verify here is that the four fields are loaded in properly and that 5 records in total are displayed.

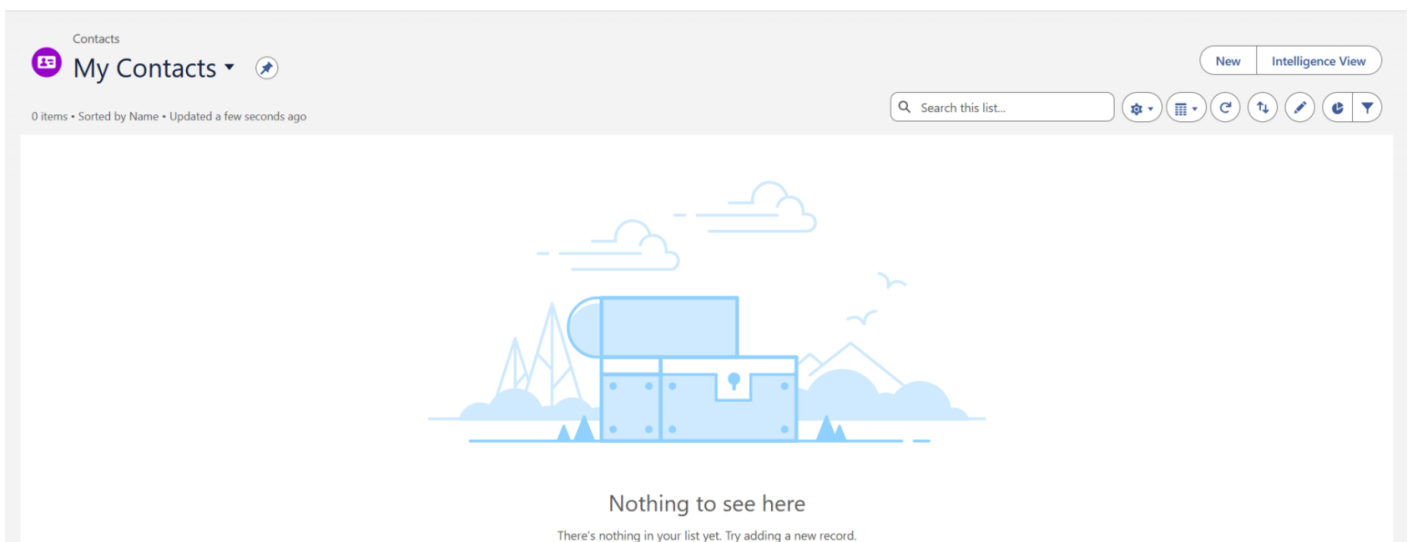
```
snowflake_mock=# SELECT * FROM contacts_load;
firstname | lastname | email | mobilephone
-----+-----+-----+-----
Julie | Karas | jakpt1@aol.com | 4014995353
Deborah | Bush | debbush927@gmail.com | 4012634347
Patricia | Southern | billsouthern49@gmail.com | 2065255287
Celeste | Bilotti | celeste.bilotti@gmail.com | 4016477011
Sally | Caruso | scaruso@fullchannel.net | 4012196659
(5 rows)
```

Bulk Contact Delete DAG

This DAG assumes that the insert function was run **previously**. If it was not run previously, then it will not delete any records and will possibly return with an error. The ETL pipeline for this DAG is simple. We extract records from PostgreSQL, transform them to make sure the fields are comprehensible for the Salesforce API, and then we modify the "**FirstName**" field in Contacts. Then, we need to find the Salesforce ID for each object, and then delete them in Salesforce via bulk.

This DAG matches the entries by Email. Anything with an email used in the PostgreSQL test base is removed.

In order to verify that this DAG worked, all three tasks in the execution finish with a "success" status, go to the Salesforce page and look for the contact objects. Each contact object in PostgreSQL should be gone.



Account DAGs

The Account object represents an individual shopper. When using person accounts, an account of the Person Account record type represents an individual shopper. When not using person accounts, a standard account and contact together represent an individual shopper. A business account buyer or shopper always has a standard account and a contact.

An "Account" is an object natively support in Salesforce. The fields the DAGs currently support for it are the following, "Name", "Phone", "BillingStreet", "BillingCity", "BillingState", "BillingPostalCode", and "BillingCountry". The Name field is clearly the person's name associated with the account, and the phone represents the phone number associated with it. The several different Billing fields are parts of the Account's billing address, separated into their street, city, state, postal code, and lastly country. For more information on Accounts in Salesforce consult the following link [here](#).

Just like with Contact objects, and for that matter any other object in Salesforce, the primary key for this object is its "Id" field, which is how Salesforce identities the object and distinguishes it from others, even if two objects have identical fields everywhere else. In order to find an Account's ID in Salesforce, a SOQL query must be executed such that some/all of its fields are matched. I will assume for the sake of these DAGs, that the email of each user is unique, and only match the email. This might not be best practice overall, but for the sake of the POC demos it will be how I proceed.

PostgreSQL For Accounts

There are two tables in the "[mock_snowflake](#)" PostgreSQL database for Accounts, namely an "[accounts_extract](#)" table for DAGs which begin in PostgreSQL and move data into Salesforce, and a "[accounts_load](#)" for DAGs which start in Salesforce and end in PostgreSQL. The queries used to write these tables are respectively, and are executed in Airflow from the "**build_account_tables**" DAG.

```
CREATE TABLE accounts_extract (  
    name VARCHAR(255),  
    phone VARCHAR(255),  
    billingstreet VARCHAR(255),  
    billingcity VARCHAR(255),  
    billingstate VARCHAR(255),  
    billingpostalcode VARCHAR(255),  
    billingcountry VARCHAR(255)  
);
```

```
CREATE TABLE accounts_load (  
    name VARCHAR(255),
```

```

phone VARCHAR(255),
billingstreet VARCHAR(255),
billingcity VARCHAR(255),
billingstate VARCHAR(255),
billingpostalcode VARCHAR(255),
billingcountry VARCHAR(255)
);

```

Here is the resulting data for "**accounts_extract**" after it has been created:

```

snowflake_mock=# SELECT * FROM accounts_extract;
name      |      phone      | billingstreet  | billingcity  | billingstate  |
billingpostalcode | billingcountry
-----+-----+-----+-----+-----+-----
+-----+-----+-----+-----+-----+-----
1_First_Name | +1-111-111-1111 | 1 Billing Street | 1 Billing City | 1 Billing State | 1
Billing Postal Code | 1 Billing Country
2_First_Name | +2-222-222-2222 | 2 Billing Street | 2 Billing City | 2 Billing State | 2
Billing Postal Code | 2 Billing Country
3_First_Name | +3-333-333-3333 | 3 Billing Street | 3 Billing City | 3 Billing State | 3
Billing Postal Code | 3 Billing Country
4_First_Name | +4-444-444-4444 | 4 Billing Street | 4 Billing City | 4 Billing State | 4
Billing Postal Code | 4 Billing Country
(4 rows)

```

```

snowflake_mock=# SELECT * FROM accounts_load;
name | phone | billingstreet | billingcity | billingstate | billingpostalcode |
billingcountry
-----+-----+-----+-----+-----+-----+-----
+-----+-----+-----+-----+-----+-----
(0 rows)

```

In order to reset both tables, run the "**build_account_tables**" DAG. It will drop either of the tables if detected, and reconstruct both tables with the above associated fields. Secondly, it will add in the default information into "**account_extract**".

Testing All Account DAGs

In order to verify that all of the Account DAGs are working, it is recommended that the DAGs are run in a specific order. Make sure that you know how to find and access these records in the

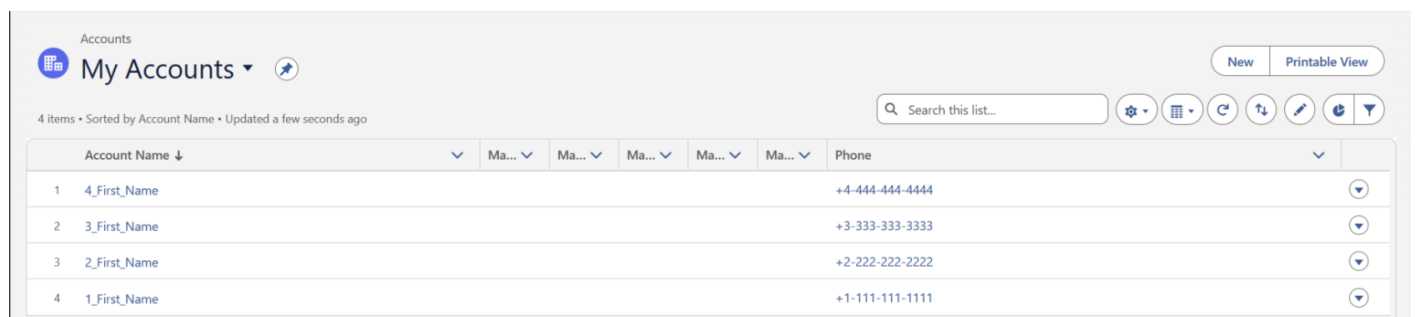
frontend of Salesforce. It is vital that the records added to Salesforce are visible.

Begin with the "**build_account_tables**" table in order to reset the PostgreSQL tables for loading and extracting. Secondly, run the "**poc_accounts_bulk_insert**" DAG. This will populate Salesforce with entries from the PostgreSQL load table. Secondly, run the "**poc_accounts_bulk_update**" DAG, this will change each DAG to have a different name indicating they were updated by this function. Thirdly, run "**poc_accounts_bulk_upsert**" which will add 4 entries to Salesforce and then modify the 4 existing entries. Fourthly, run "**poc_accounts_reverse**". Check the PostgreSQL database in the "**accounts_load**" page, it should include 5 different records that may or may not include the newly added information. Lastly, run the "**poc_accounts_bulk_delete**" DAG, which will remove all of the entries added during this test.

Bulk Account Insert DAG

This DAG has tests that Accounts records from "accounts_extract" in PostgreSQL can be uploaded to Salesforce. The ETL pipeline for this DAG is simple. We extract records from PostgreSQL, transform them to make sure the fields are comprehensible for the Salesforce API, and then we load them into Salesforce via bulk.

In order to verify that this DAG worked, all three tasks in the execution finish with a "success" status, go to the Salesforce page and look for the Accounts objects. There should at least be four, depending on whether or not previous records had been cleared from Salesforce.



The screenshot shows the Salesforce 'Accounts' list view. At the top, there's a header with 'Accounts', 'My Accounts' with a dropdown arrow, and a star icon. On the right, there are buttons for 'New' and 'Printable View'. Below the header, it says '4 items • Sorted by Account Name • Updated a few seconds ago'. There's a search bar with the placeholder 'Search this list...'. Below the search bar, there are several icons for settings, view, refresh, undo, redo, edit, and filter. The table has columns for 'Account Name' (with a dropdown arrow), five columns labeled 'Ma...' (each with a dropdown arrow), and 'Phone' (with a dropdown arrow). The table contains four rows of data:

	Account Name ↓	Ma... ↓	Ma... ↓	Ma... ↓	Ma... ↓	Ma... ↓	Phone
1	4_First_Name						+4-444-444-4444
2	3_First_Name						+3-333-333-3333
3	2_First_Name						+2-222-222-2222
4	1_First_Name						+1-111-111-1111

Bulk Account Update DAG

This DAG has tests that records from PostgreSQL already uploaded to Salesforce can have some of their fields modified. The ETL pipeline for this DAG is simple. We extract records from "accounts_extract" in PostgreSQL, transform them to make sure the fields are comprehensible for the Salesforce API, and then we modify the "**Name**" field in Contacts and update them in Salesforce via bulk.

In order to verify that this DAG worked, all three tasks in the execution finish with a "success" status, go to the Salesforce page and look for the Accounts objects. Each contact object in PostgreSQL should have a "**Name**" field corresponding to "**ModifiedViaUpdate**". This obviously is meant to indicate that the Update DAG was responsible for this modification and not say insert or upsert.

Accounts

My Accounts ▾ ↗

4 items • Sorted by Account Name • Updated 2 minutes ago

Search this list...

⚙️ 📄 ↺ ↻ ✎ 🔄 ⌵

	Account Name ↓	Mat... ▾	Mat... ▾	Mat... ▾	Mat... ▾	Mat... ▾	Phone	
1	NameModifiedViaUpdate						+4-444-444-4444	⌵
2	NameModifiedViaUpdate						+3-333-333-3333	⌵
3	NameModifiedViaUpdate						+2-222-222-2222	⌵
4	NameModifiedViaUpdate						+1-111-111-1111	⌵

Bulk Account Upsert DAG

This DAG has tests that records from PostgreSQL already uploaded to Salesforce can have some of their fields modified and also upload new records simultaneously. This DAG assumes that the insert function for Accounts was run **previously**. If it was not run previously, then it will not be able to update records, only upload them.

The ETL pipeline for this DAG is simple. We extract records from "accounts_extract" in PostgreSQL, transform them to make sure the fields are comprehensible for the Salesforce API, and then we modify the "First Name" field in Accounts and update them in Salesforce via bulk. We also add in the same four objects into Salesforce as insert.

In order to verify that this DAG worked, all three tasks in the execution finish with a "success" status, go to the Salesforce page and look for the Account objects. Each contact object in PostgreSQL should have a "Name" field corresponding to "ModifiedViaUpsert". There should be 4 more objects from PostgreSQL now too:

Accounts

My Accounts ▾ ↗

8 items • Sorted by Account Name • Updated a few seconds ago

Search this list...

⚙️ 📄 ↺ ↻ ✎ 🔄 ⌵

	Account Name ↓	Mat... ▾	Mat... ▾	Mat... ▾	Mat... ▾	Mat... ▾	Phone	
1	NameModifiedViaUpsert						+4-444-444-4444	⌵
2	NameModifiedViaUpsert						+3-333-333-3333	⌵
3	NameModifiedViaUpsert						+2-222-222-2222	⌵
4	NameModifiedViaUpsert						+1-111-111-1111	⌵
5	4_First_Name						+4-444-444-4444	⌵
6	3_First_Name						+3-333-333-3333	⌵
7	2_First_Name						+2-222-222-2222	⌵
8	1_First_Name						+1-111-111-1111	⌵

Account Reverse DAG

This DAG tests if records from Salesforce can be loaded into PostgreSQL. The ETL pipeline for this DAG is simple. We extract records from Salesforce in the Account section, transform them to make sure the fields are comprehensible for the PostgreSQL, and then we load them to PostgreSQL in the "accounts_load". In order to see how to access the contents in the PostgreSQL page, execute the commands in the "Bulk Contact Delete DAG", the sequence of commands is essentially the same except for the SQL query made which should be to the "accounts_load" table:

```
SELECT * FROM accounts_load;
```

Here is the resulting output (these should not necessarily match the results of your query)

```
snowflake_mock=# SELECT * FROM accounts_load;
```

name	phone	billingstreet	billingcity	billingstate	billingpostalcode	billingcountry
Wistow & Barylick Inc		61 Weybosset St	Providence	Rhode Island	02903-2824	
East Greenwich Leisure Learning		99 Peirce St	East Greenwich	Rhode Island	02818-3814	
Mei-King Restaurant		211 S Bend St	Pawtucket	Rhode Island	02860-4534	
Praxair Foundation Inc		39 Old Ridgebury Rd	Danbury	Connecticut	06810-5103	
Mitsubishi Trust and Banking Corp		520 Madison Ave	New York	New York	10022	

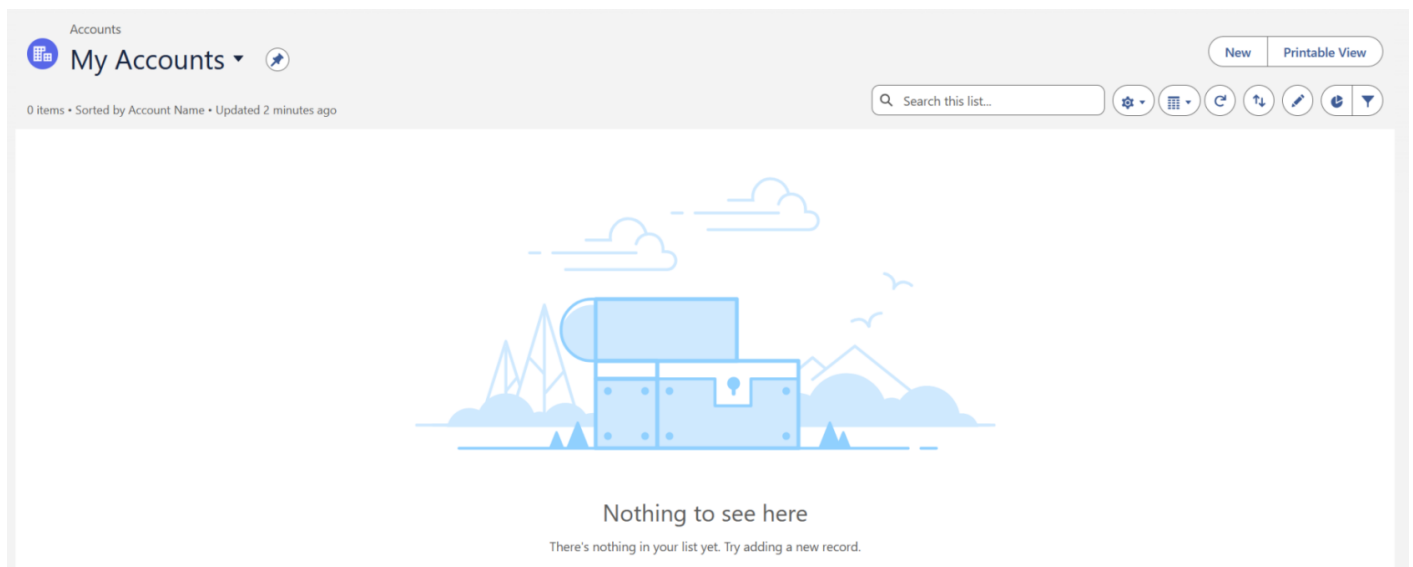
(5 rows)

Bulk Account Delete DAG

This DAG assumes that the insert function was run **previously**. If it was not run previously, then it will not delete any records and will possibly return with an error. The ETL pipeline for this DAG is simple. We extract records from PostgreSQL, transform them to make sure the fields are comprehensible for the Salesforce API, and then we modify the "**Name**" field in Account. Then, we need to find the Salesforce ID for each object, and then delete them in Salesforce via bulk.

This DAG matches the entries by Phone number. Anything with a phone number used in the PostgreSQL test base is removed.

In order to verify that this DAG worked, all three tasks in the execution finish with a "success" status, go to the Salesforce page and look for the contact objects. Each contact object in PostgreSQL should be gone.



Revision #13

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