

## Snowpipe Ingestion - Workshop instructions

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```
--set the context of the worksheet to meetup warehouse and schema
USE WAREHOUSE SNFL_ATL_MEETUP_WH;
USE SCHEMA SNFL_ATL_MEETUP_DB.SNFL_ATL_MEETUP_SCHEMA;
```

```
-- Create a file format
```

```
-- Don't have to execute this. We will use SNFL_SP_JSON_FORMAT
```

```
CREATE FILE FORMAT SNFL_SP_JSON_FORMAT
  TYPE = 'json';
```

```
--create an external stage to cloud storage eg., below is for AWS
```

```
--Please use unique stage name. Change the Bucket URL and credentials
```

```
CREATE STAGE SNFL_SP_DEMO_STAGE_[trial]
  url='s3://s3_bucketURL'
  CREDENTIALS = (aws_role = 'role ARN')
  FILE_FORMAT = SNFL_SP_JSON_FORMAT
  encryption=(type='AWS_SSE_KMS' kms_key_id = 'aws/key');
```

```
--Execute the describe statement on the stage to get property_value of Snowflake IAM
User and AWS External ID from the Stage:
```

```
--Change the stage name
```

```
DESC STAGE
SNFL_ATL_MEETUP_DB.SNFL_ATL_MEETUP_SCHEMA.snfl_sp_demo_stage_[trial];
```

```
--Change the stage name
```

```
//list contents of the stage
LIST @SNFL_ATL_MEETUP_DB.SNFL_ATL_MEETUP_SCHEMA.snfl_sp_demo_stage_[trial];
```

```
//create table
```

```
--Please use unique table name
```

```
CREATE OR REPLACE TABLE
SNFL_ATL_MEETUP_DB.SNFL_ATL_MEETUP_SCHEMA.SP_DEMO_JSON_TABLE_[trial]
(RAW_DATA VARIANT,
INGESTIONG_TIME TIMESTAMP_LTZ(9));
```

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// create pipe

**--Please use unique pipe name, change it to your table name and stage name**

CREATE OR REPLACE PIPE

SNFL\_ATL\_MEETUP\_DB.SNFL\_ATL\_MEETUP\_SCHEMA.SP\_DEMO\_PIPE\_[trial]

AUTO\_INGEST=TRUE

AS

COPY INTO

SNFL\_ATL\_MEETUP\_DB.SNFL\_ATL\_MEETUP\_SCHEMA.SP\_DEMO\_JSON\_TABLE\_[trial]

FROM (

SELECT

\$1 AS RAW\_DATA,

CURRENT\_TIMESTAMP() AS INGESTION\_TIME

FROM

@SNFL\_ATL\_MEETUP\_DB.SNFL\_ATL\_MEETUP\_SCHEMA.SNFL\_SP\_DEMO\_STAGE\_[trial]  
);

//list pipes

SHOW PIPES;

**--Change it to your table name**

//confirm the data ingestion

SELECT \* FROM

SNFL\_ATL\_MEETUP\_DB.SNFL\_ATL\_MEETUP\_SCHEMA.SP\_DEMO\_JSON\_TABLE\_[trial];

SELECT COUNT(\*) FROM

SNFL\_ATL\_MEETUP\_DB.SNFL\_ATL\_MEETUP\_SCHEMA.SP\_DEMO\_JSON\_TABLE\_[trial];

//useful commands

--see pipe status

**--Change it to your table name**

SELECT SYSTEM\$PIPE\_STATUS('SP\_DEMO\_PIPE\_[trial]');

**--Query to get a Structured output from the ingested json file**

SELECT

RAW\_DATA:"base"::STRING AS BASE,

RAW\_DATA:"direction"::STRING AS DIRECTION,

RAW\_DATA:"exchange"::STRING AS EXCHANGE,

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```
RAW_DATA:"price"::DECIMAL AS PRICE,  
RAW_DATA:"priceUsd"::DECIMAL AS PRICEUSD,  
RAW_DATA:"quote"::STRING AS QUOTE,  
TRY_TO_TIMESTAMP(RAW_DATA:"timestamp"::STRING)::TIMESTAMP_LTZ(9) AS  
TIMESTAMP,  
RAW_DATA:"volume"::INTEGER AS VOLUME,  
CURRENT_TIMESTAMP() AS CURRENT_TIME  
FROM  
  
SNFL_ATL_MEETUP_DB.SNFL_ATL_MEETUP_SCHEMA.SP_DEMO_JSON_TABLE_[trial];
```