Aviation Data Flow Management:

Amazon S3:
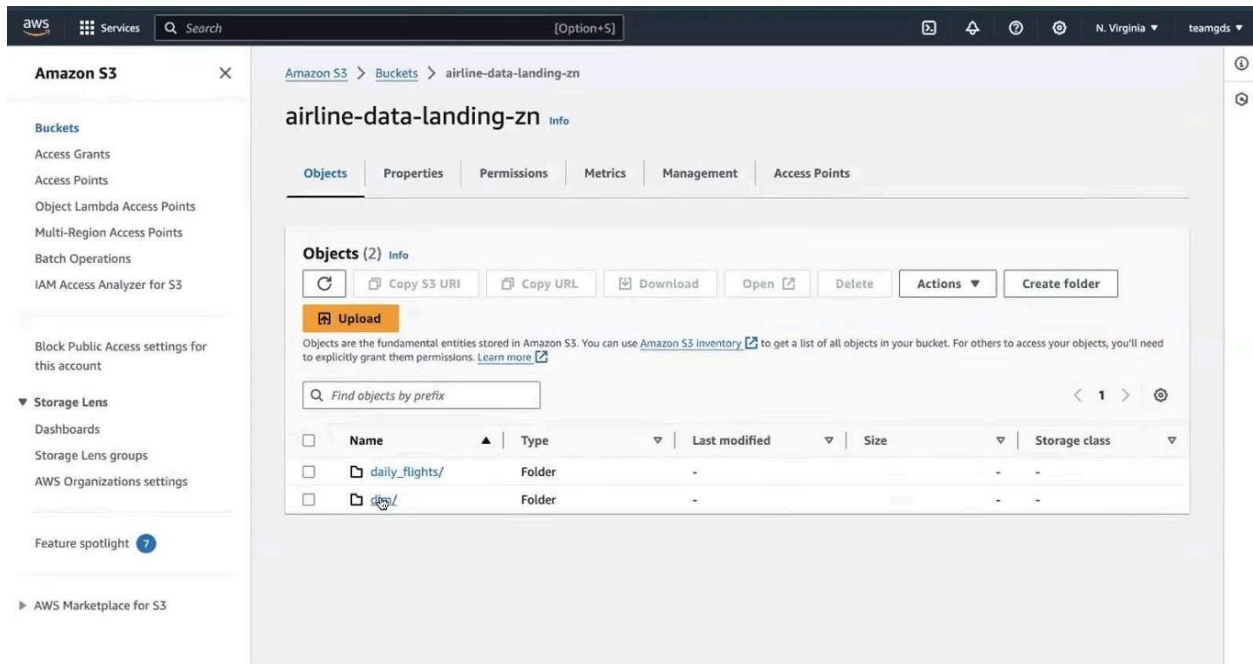
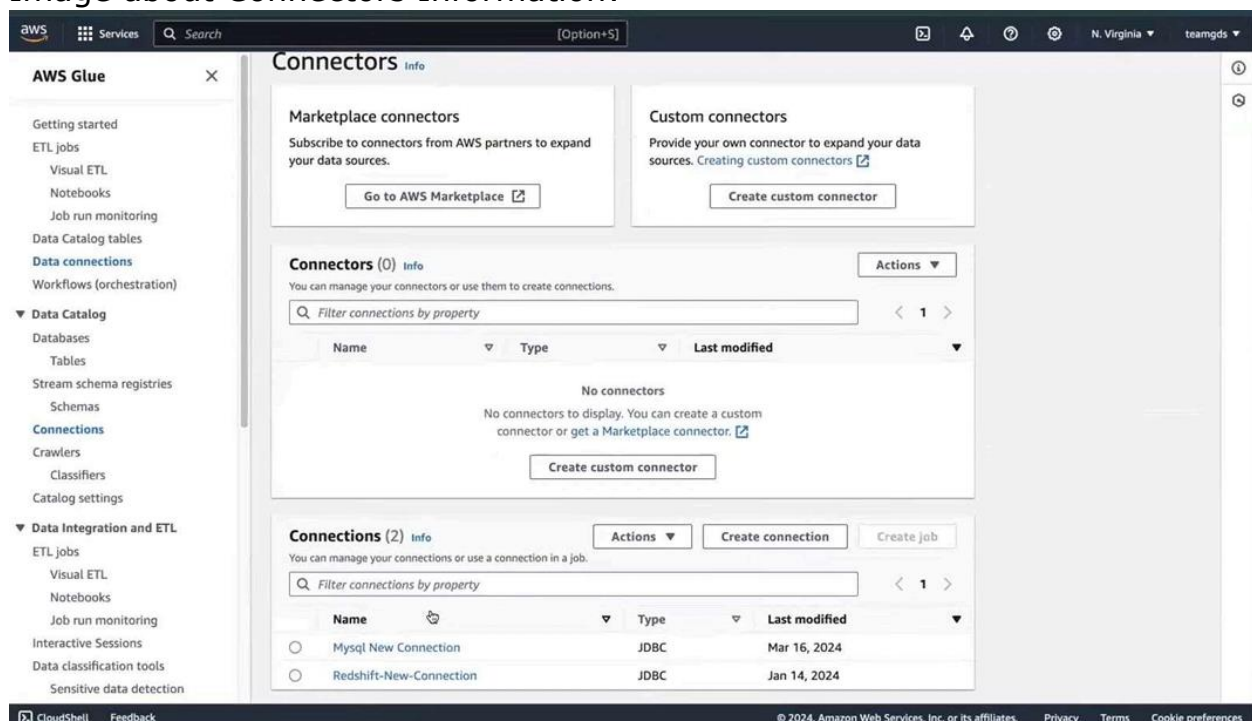
How does the airports data look like?

How does the daily flight information data look like?

```
flights.csv ×

Airline_Data_Ingestion_Project > flights.csv
     1    Carrier,OriginAirportID,DestAirportID,DepDelay,ArrDelay
     2    DL,11433,13303,-3,1
     3    DL,14869,12478,0,-8
     4    DL,14057,14869,-4,-15
     5    DL,15016,11433,28,24
     6    DL,11193,12892,-6,-11
     7    DL,10397,15016,-1,-19
     8    DL,15016,10397,0,-1
     9    DL,10397,14869,15,24
    10    DL,10397,10423,33,34
    11    DL,11278,10397,323,322
    12    DL,14107,13487,-7,-13
    13    DL,11433,11298,22,41
    14    DL,11298,11433,40,20
    15    DL,11433,12892,-2,-7
    16    DL,10397,12451,71,75
    17    DL,12451,10397,75,57
    18    DL,12953,10397,-1,10
    19    DL,11433,12953,-3,-10
    20    DL,10397,14771,31,38
    21    DL,13204,10397,8,25
    22    DL,13487,12889,-3,-2
    23    DL,12889,13487,7,16
    24    DL,10397,14027,0,19
    25    DL,14027,10397,13,25
    26    DL,13244,10397,4,13
    27    DL,12953,11697,12,-8
    28    DL,10397,12892,15,7
    29    DL,14869,14747,-7,-6
    30    DL,14747,14869,15,18
    31    DL,10397,10423,0,56
    32    DL,10423,10397,56,49
    33    DL,11292,12953,-5,6
    34    DL,14869,14893,-5,-14
    35    DL,12953,11697,-3,21
    36    DL,14869,14908,-6,-14
    37    DL,12892,15304,21,-2
```

Image about Connectors Information:

Glue Crawler Information:

List of Columns dropped after performing 1st join operation:

List of Columns dropped after performing 2nd join operation:

Change Schema (Apply mapping)

Source key	Target key	Data type	Drop
dep_delay	dep_delay	bigint ▼	☐
arr_delay	arr_delay	bigint ▼	☐
destairportid			☑
carrier	carrier	string ▼	☐
dep_city	dep_city	string ▼	☐
dep_airport	dep_airpor	string ▼	☐
dep_state	dep_state	string ▼	☐
airport_id			☑
city	arr_city	string ▼	☐
name	arr_airport	string ▼	☐
state	arr_state	string ▼	☐

Glue Job Pipeline:
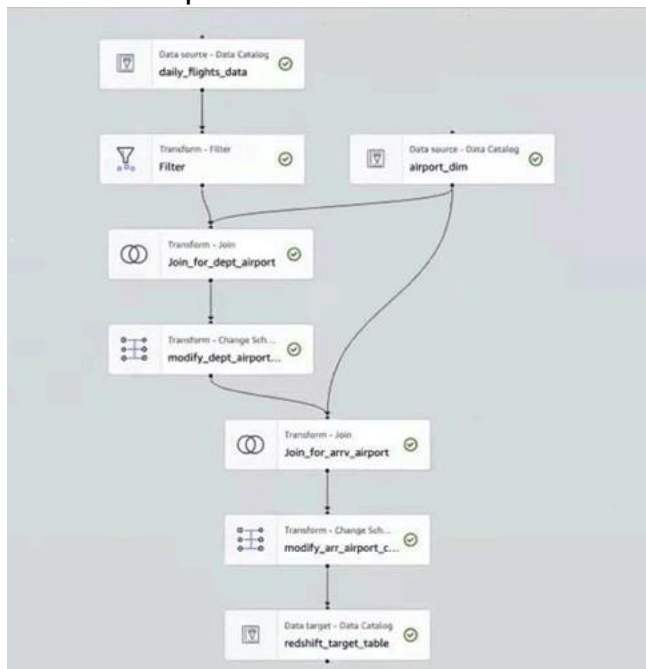
Event Bridge Patterns:
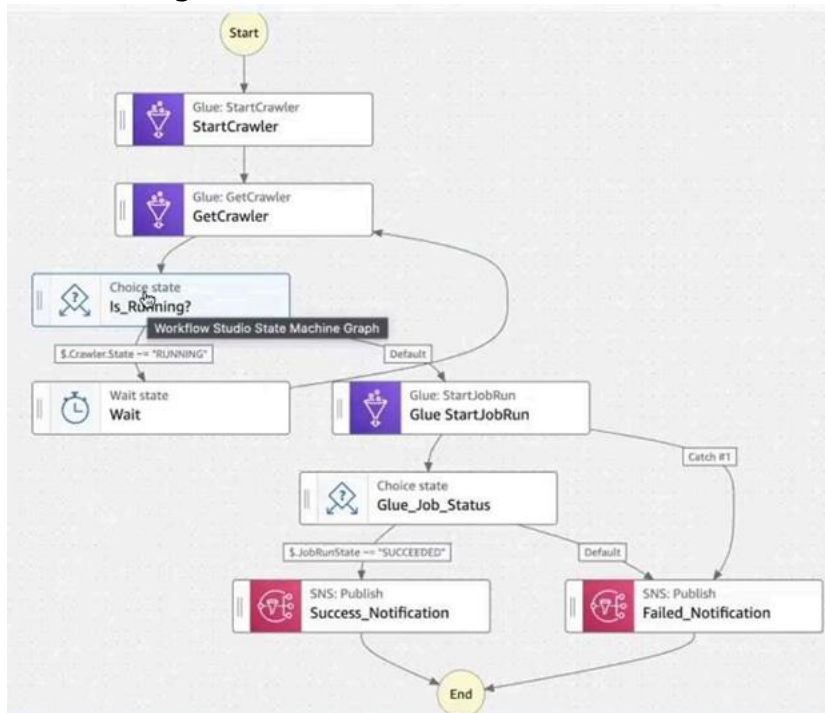
Step Function Pipeline:

Event pattern Info

Event pattern

Write an event pattern in JSON. You can test the event pattern against the sample event. You can also go to pre-defined pattern.

[Prefix matching ▼] [Insert] ◯ Content-based filter syntax

```
 1 {
 2   "source": ["aws.s3"],
 3   "detail-type": ["Object Created"],
 4   "detail": {
 5     "bucket": {
 6       "name": ["airline-data-landing-zn"]
 7     },
 8     "object": {
 9       "key": [{
10         "suffix": ".csv"
11       }]
12     }
13   }
14 }
```

⊘ JSON is valid

[⎘ Copy] [{} Prettify] [▣ Event pattern form] [◎ Test pattern]

Sample State Machine Image while execution: