# Automating Azure Data Factory Pipeline to Run on the Last Saturday of Each Month

1. Storage Setup

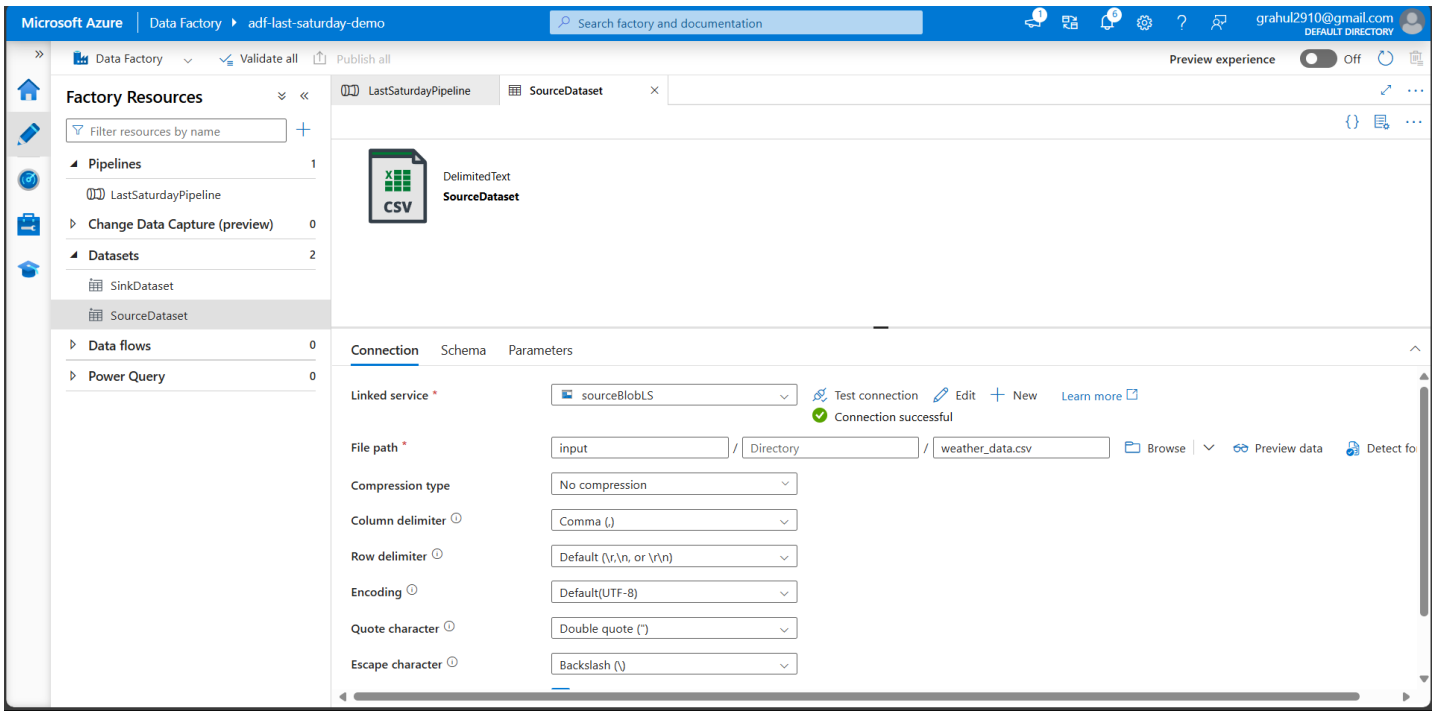
- Created two Azure Storage Accounts: one for source and one for sink.
- Created containers (input and output) in the respective accounts.

2. Linked Services

- Configured two linked services in ADF:
  - sourceBlobLS pointing to the source storage account.
  - sinkBlobLS pointing to the sink storage account.

3. Datasets

- Created SourceDataset to point to the uploaded CSV file in the input container.
- Created SinkDataset to define the target location in the output container.




4. Pipeline Design

- Designed a pipeline named LastSaturdayPipeline.
- Added an If Condition activity to control execution.
- Inside the True branch, added a Copy Data activity to move data from source to sink.

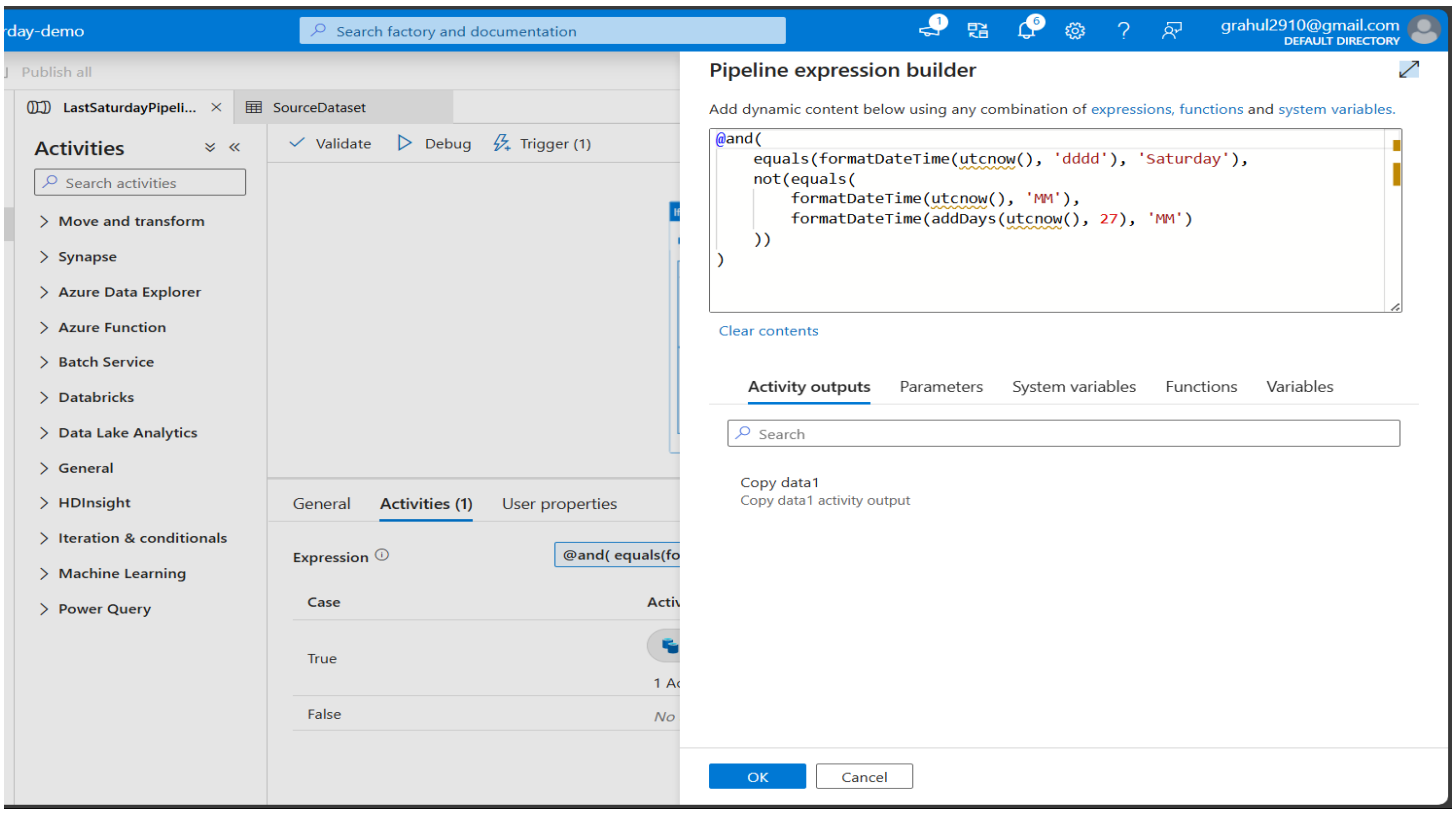
Conditional Logic for Last Saturday Check

We used the following logic in the If Condition expression:

json

CopyEdit

```
@and(
   equals(formatDateTime(utcNow(), 'dddd'), 'Saturday'),
   not(equals(formatDateTime(utcNow(), 'MM'), formatDateTime(addDays(utcNow(), 7), 'MM')))
)
```




Explanation:

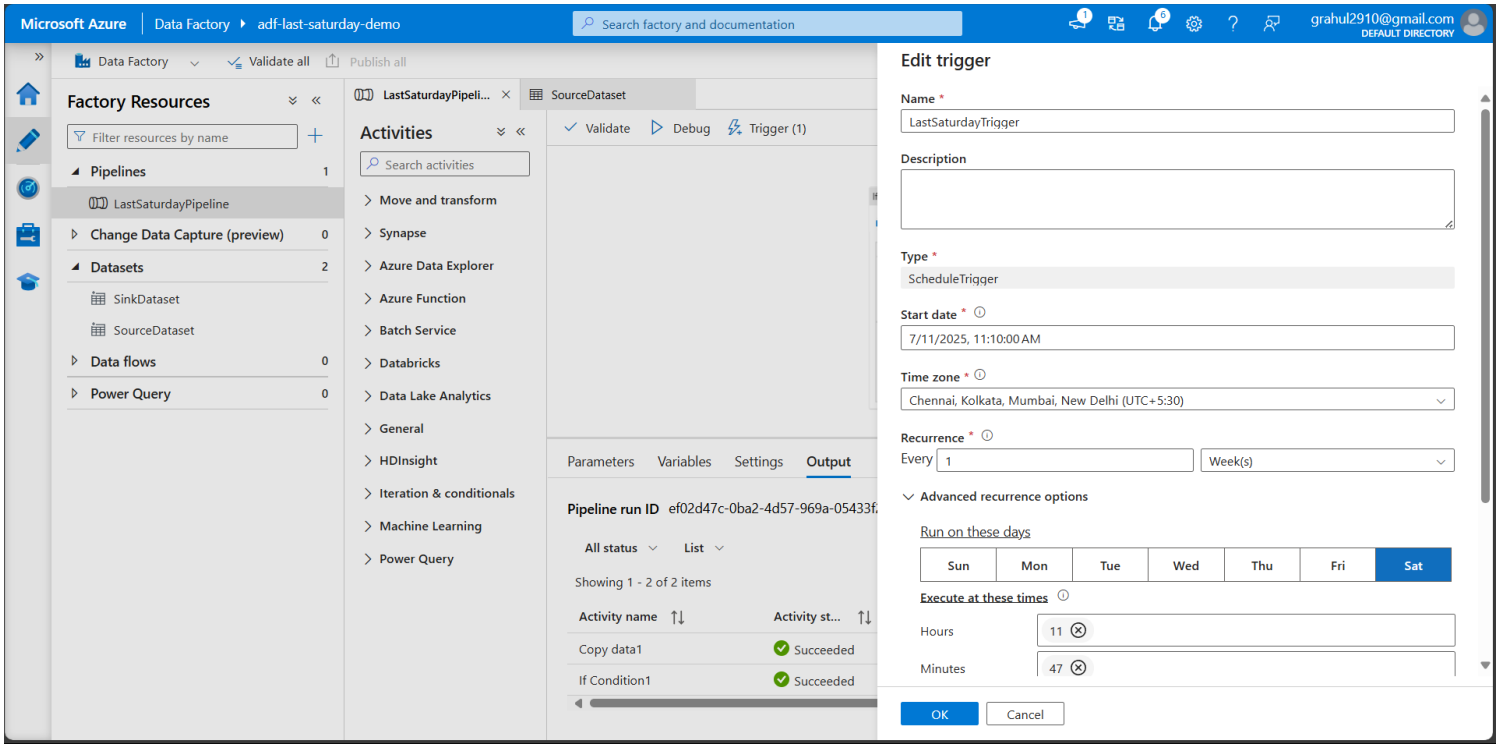
- formatDateTime(utcNow(), 'dddd') = 'Saturday': Checks if today is Saturday.
- formatDateTime(addDays(utcNow(), 7), 'MM') ≠ formatDateTime(utcNow(), 'MM'): Checks if adding 7 days changes the month.
    - If yes → current Saturday is the last Saturday of the month

Only if both conditions are true, the pipeline proceeds to run the data copy.

Trigger Setup

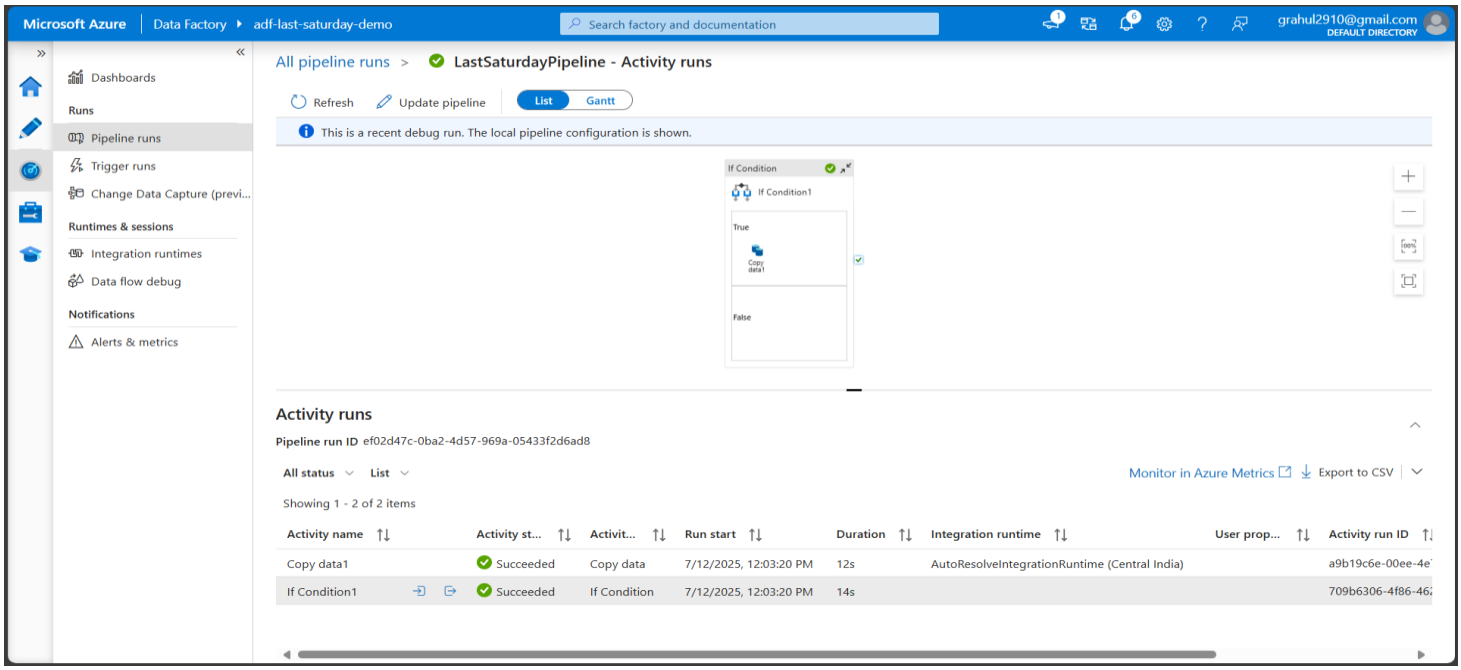
- Created a Scheduled Trigger set to run every Saturday.

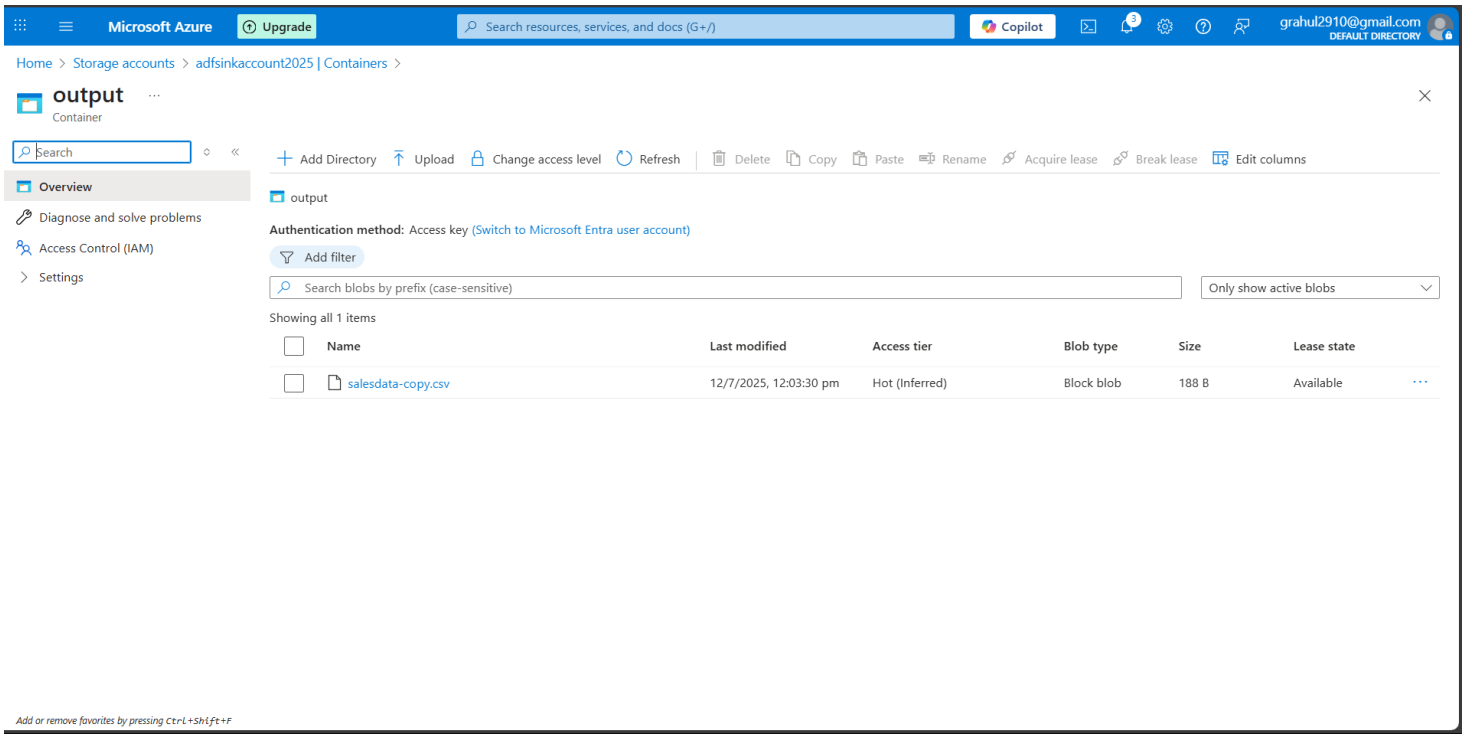
- Linked this trigger to the pipeline.
- The actual execution is internally controlled by the above condition — ensuring it runs only on the last Saturday of each month.




Testing

- Tested the condition by replacing utcNow() with hardcoded date strings like '2025-07-12T00:00:00Z' or '2025-07-26T00:00:00Z'.
- Observed the pipeline run output and verified if data was copied to the sink storage

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Change access level
Refresh
Delete
Copy
Paste
Rename
Acquire lease
Break lease
Edit columns
output
Authentication method: Access key (Switch to Microsoft Entra user account)
Add filter
Search blobs by prefix (case-sensitive)
Only show active blobs
Showing all 1 items
Name
Last modified
Access tier
Blob type
Size
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