TASK 4

Automate a Pipeline to Trigger Every Last Saturday of the Month: Configure a custom time-based trigger in Azure Data Factory to run the pipeline on the last Saturday of each month. This supports periodic reporting and batch processing without manual intervention.

Step-by-Step Guide

Step 1: Create a Scheduled Trigger (Every Saturday)

1. In ADF, go to Manage > Triggers > New.

2. Set Recurrence:

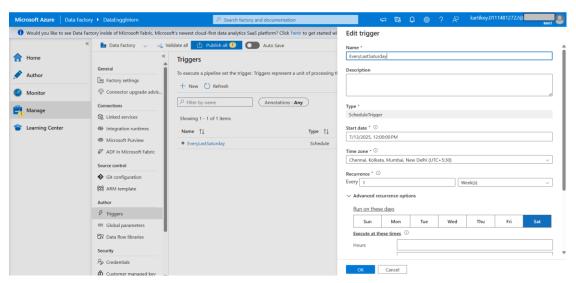
o Start date: Set appropriately

o Recurrence: Weekly

Days: Only select Saturday

3. Save the trigger.

This will run the pipeline every Saturday.

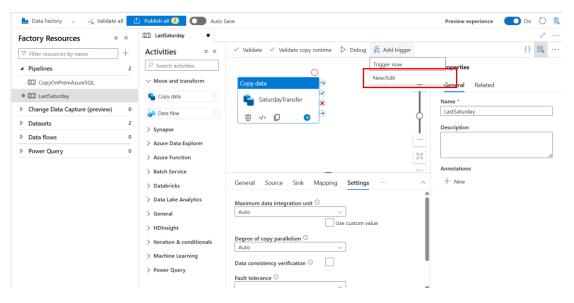


Step 2: Add Logic in Pipeline to Check for Last Saturday

We need to determine if the current date is the **last Saturday** of the month. If yes, continue processing. If not, exit.

Inside the Pipeline:

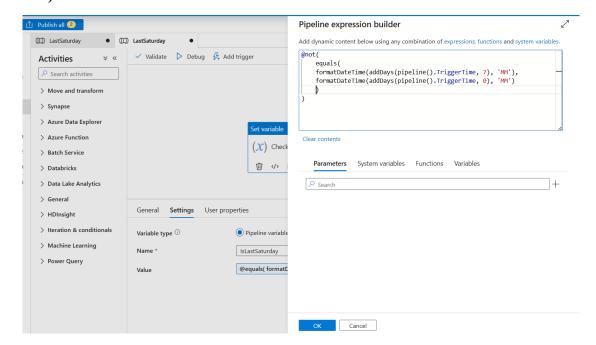
1. Add the trigger to the pipeline.



Use an ADF Expression to determine "IsLastSaturday"

Use a **Set Variable** activity with the following logic:

```
@not(
          equals(
          formatDateTime(addDays(pipeline().TriggerTime, 7), 'MM'),
          formatDateTime(pipeline().TriggerTime, 'MM')
          )
)
```



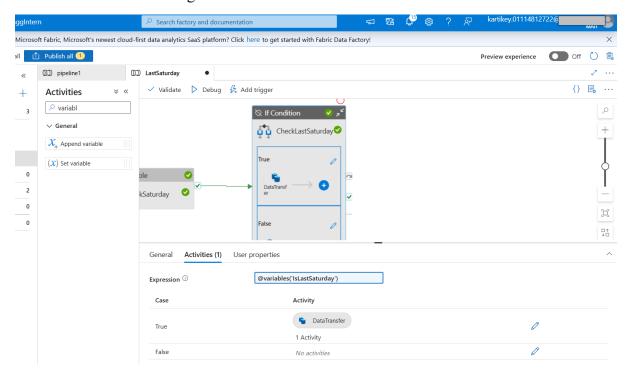
Explanation:

- This checks if adding 7 days to today would change the month.
- If month remains the same, it's not the last Saturday.
- If the month changes, today is the last Saturday.

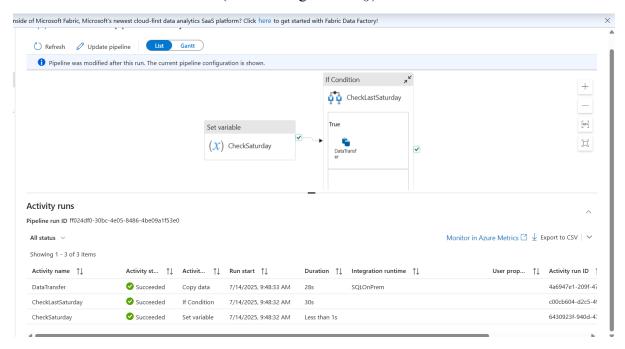
Set this value in a Boolean variable IsLastSaturday.

Step 3: Add If Condition Activity

- 1. Add an **If Condition** activity after the variable is set.
- 2. Use the condition:
 - @variables('IsLastSaturday')
- 3. **If True**: We proceed with reporting or batch processing logic.
 - In our implementation, we just transfer data from on-premise SQL Server to the Azure SQL.(from Task 1).
- 4. If False: Do nothing



SUCCESSFUL AUTOMATION(Tested using utcnow())



UPDATED DATA

