**Metadata activity**

* **What it is**: Information about data, such as schema, properties, size, creation date, etc.
* **Metadata Activity**: Extracts this information from a source.
* **Example 1**: Fetch the schema of a SQL table to understand its columns and data types.
* **Example 2**: Retrieve the size and last modified date of files in Azure Blob Storage.

**If Condition activity**

* **What it is**: A logical statement that directs flow based on true or false.
* **If Condition Activity**: Executes different activities depending on the condition's outcome.
* **Example 1**: Check if a file exists in Azure Data Lake. If true, move the file; if false, send an alert.
* **Example 2**: Verify if a table has more than 1,000 records. If true, run a data transformation; if not, skip it.

**Validation activity**

* **What it is**: Confirms data meets criteria or is present.
* **Validation Activity**: Checks for conditions before proceeding.
* **Example 1**: Validate the presence of a file in Blob Storage before processing.
* **Example 2**: Confirm that a dataset is not empty before running a pipeline.

**Delete activity**

* **What it is**: Removes data or files.
* **Delete Activity**: Deletes specified files or folders.
* **Example 1**: Remove old log files from Azure Data Lake.
* **Example 2**: Delete temporary files post-processing to save storage space.