Azure Stream Analytics job

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Stream analytics job

- Input
- Output
- "SQL Query"

Overview

Inputs
1
twitterinput   Event Hub

Outputs
1
powerbiaggdata   Power BI

```
Query
 1   SELECT
 2   System.Timestamp() AS WindowEnd
 3       ,topic
 4       , AVG(sentimentscore)  AS GnsSentimentScore
 5       , COUNT(*)  AS Antal
 6   INTO powerbiaggdata
 7   FROM
 8       twitterinput TIMESTAMP BY createdAt
 9   GROUP BY topic, tumblingwindow(second,30)
10
11
12
```

Stream analytics job - Input

Only a few possibilities:
- Azure Blob storage
- Data lake Gen2
- Azure Event Hub
- Azure IoT Hub

Stream analytics job - Output

Several possibilities:

- SQL Database
- Power BI
- Event Hub
- Synapse Analytics
- Cosmos DB
- Blob storage
- Data Lake
- etc

Azure Data Explorer (Preview)

Azure Function

Azure PostgreSQL (preview)

Azure Synapse Analytics

Blob storage/ADLS Gen2

Cosmos DB

Data Lake Storage Gen1

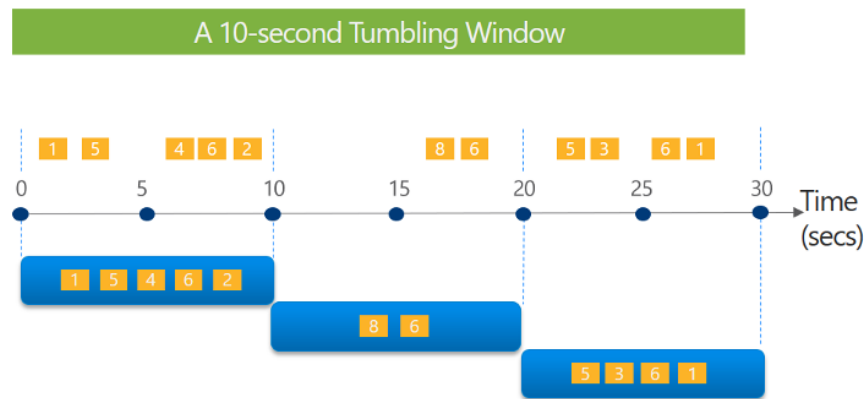Event Hub

Power BI

Service Bus queue

Service Bus topic

SQL Database

Table storage

Stream Analytics –windowing functions

SQL query language to analyze data in motion

Tell me the count of tweets per time zone every 10 seconds

A 10-second Tumbling Window

```
SELECT TimeZone, COUNT(*) AS Count
FROM TwitterStream TIMESTAMP BY CreatedAt
GROUP BY TimeZone, TumblingWindow(second,10)
```

˅ Windowing Functions

Windowing Functions Overview

Hopping Window

Session Window

Sliding Window

Snapshot Window

Tumbling Window

Aggregate Windowing functions