

Tables-

```
CREATE TABLE NewsAnalysis (  
    ArticleUrl NVARCHAR(450) PRIMARY KEY,  
    Title NVARCHAR(MAX),  
    PublishedDate DATETIME2,  
    Sentiment NVARCHAR(50),  
    PositiveScore FLOAT,  
    NegativeScore FLOAT,  
    NeutralScore FLOAT  
);
```

```
CREATE TABLE ArticleEntities (  
    Id INT IDENTITY(1,1) PRIMARY KEY,  
    ArticleUrl NVARCHAR(450),  
    EntityText NVARCHAR(255),  
    EntityType NVARCHAR(50)  
);
```

```
CREATE TABLE ArticleKeyPhrases (  
    Id INT IDENTITY(1,1) PRIMARY KEY,  
    ArticleUrl NVARCHAR(450),  
    KeyPhrase NVARCHAR(255) );
```

Stored Procedure-

```
CREATE PROCEDURE sp_InsertArticleEntities

    @ArticleUrl NVARCHAR(450),

    @EntitiesJson NVARCHAR(MAX)

AS

BEGIN

    INSERT INTO ArticleEntities (ArticleUrl, EntityText, EntityType)

    SELECT

        @ArticleUrl,

        [text],

        [category]

    FROM

        OPENJSON(@EntitiesJson)

        WITH (

            [text] NVARCHAR(255) '$.text',

            [category] NVARCHAR(50) '$.category'

        );

END
```

```
CREATE PROCEDURE sp_InsertArticleKeyPhrases

    @ArticleUrl NVARCHAR(450),

    @KeyPhrasesJson NVARCHAR(MAX)

AS
```

```
BEGIN

INSERT INTO ArticleKeyPhrases (ArticleUrl, KeyPhrase)

SELECT

    @ArticleUrl,

    [value]

FROM

    OPENJSON(@KeyPhrasesJson)

END
```

```
CREATE PROCEDURE sp_InsertNewsAnalysis

    @ArticleUrl NVARCHAR(450),

    @Title NVARCHAR(MAX),

    @PublishedDate DATETIME2,

    @Sentiment NVARCHAR(50),

    @PositiveScore FLOAT,

    @NegativeScore FLOAT,

    @NeutralScore FLOAT

AS

BEGIN
```

-- This MERGE statement is the same logic as your script

MERGE NewsAnalysis AS target

USING (SELECT

 @ArticleUrl AS ArticleUrl, @Title AS Title, @PublishedDate AS PublishedDate,

 @Sentiment AS Sentiment, @PositiveScore AS PositiveScore,

 @NegativeScore AS NegativeScore, @NeutralScore AS NeutralScore

) AS source

ON (target.ArticleUrl = source.ArticleUrl)

WHEN NOT MATCHED THEN

 INSERT (ArticleUrl, Title, PublishedDate, Sentiment, PositiveScore, NegativeScore,
NeutralScore)

 VALUES (source.ArticleUrl, source.Title, source.PublishedDate, source.Sentiment,
source.PositiveScore, source.NegativeScore, source.NeutralScore);

END

Web activity URL-

[https://newssentimentai-yourinitials.cognitiveservices.azure.com/.](https://newssentimentai-yourinitials.cognitiveservices.azure.com/)

1. For Sentiment Analysis (Web1)

This URL points to the sentiment analysis tool.

<https://newssentimentai-yourinitials.cognitiveservices.azure.com/text/analytics/v3.1/sentiment>

2. For Named Entity Recognition (Web_Entities)

This URL points to the tool that finds organizations, locations, and products.

<https://newssentimentai-yourinitials.cognitiveservices.azure.com/text/analytics/v3.1/entities/recognition/general>

3. For Key Phrase Extraction (Web_KeyPhrases)

This URL points to the tool that finds the main topics in the text.

<https://newssentimentai-yourinitials.cognitiveservices.azure.com/text/analytics/v3.1/keyPhrases>

Body-

```
{"documents":[{"id":"1","language":"en","text":"@{item().description}"]}]}
```

Header-

Ocp-Apim-Subscription-Key :

<input type="checkbox"/>	Name	Type *	Value
<input type="checkbox"/>	ArticleUrl	String ▾	@item().url
<input type="checkbox"/>	NegativeScore	Double ▾	@activity('Web1').output.documents[...
<input type="checkbox"/>	NeutralScore	Double ▾	@activity('Web1').output.documents[...
<input type="checkbox"/>	PositiveScore	Double ▾	@activity('Web1').output.documents[...
<input type="checkbox"/>	PublishedDate	DateTime ▾	@item().date
<input type="checkbox"/>	Sentiment	String ▾	@activity('Web1').output.documents[...
<input type="checkbox"/>	Title	String ▾	@replace(item().title, '', '')

@item().url

@activity('Web1').output.documents[0].confidenceScores.negative

@activity('Web1').output.documents[0].confidenceScores.neutral

@activity('Web1').output.documents[0].confidenceScores.positive

@item().date

@activity('Web1').output.documents[0].sentiment

@replace(item().title, '', '')

Storedprocedure 2-

<input type="checkbox"/>	Name	Type *	Value
<input type="checkbox"/>	ArticleUrl	String ▾	@item().url
<input type="checkbox"/>	EntitiesJson	String ▾	@string(activity('Web_Entities').outp...

@string(activity('Web_Entities').output.documents[0].entities)

<input type="checkbox"/>	Name	Type *	Value
<input type="checkbox"/>	ArticleUrl	String	@item().url
<input type="checkbox"/>	KeyPhrasesJson	String	@string(activity('Web_KeyPhrases').o...

```
@string(activity('Web_KeyPhrases').output.documents[0].keyPhrases)
```