

MS Cosmos and Scope Example

Create an Unstructured Input Stream

```
searchlog =  
    EXTRACT UserId : int,  
            Start : DateTime,  
            Region : string,  
            Query : string,  
            Duration : int,  
            Urls : string,  
            ClickedUrls : string  
    FROM "/my/SampleData/SearchLog.txt"  
    USING DefaultTextExtractor();
```

Run Query

```
// Find all the sessions in the en-gb region
rs1 =
    SELECT Start, Region, Duration
    FROM searchlog
    WHERE Region == "en-gb";
```

Run Query and Create a Rowset

```
// Find all the sessions lasting between 2 and 5 minutes OR that are in the en-gb Region  
rs1 =  
    SELECT Start, Region, Duration  
    FROM searchlog  
    WHERE (Duration >= 2*60 AND Duration <= 5*60) OR (Region == "en-gb");
```

Run Query

```
// Find all the sessions occurring between two dates
rs1 =
    SELECT Start, Region, Duration
    FROM searchlog
    WHERE Start >= DateTime.Parse("2012/02/16") AND
           Start <= DateTime.Parse("2012/02/17");
```

Save Query Results to File

```
OUTPUT rs1  
TO "/my/Outputs/output.txt";
```