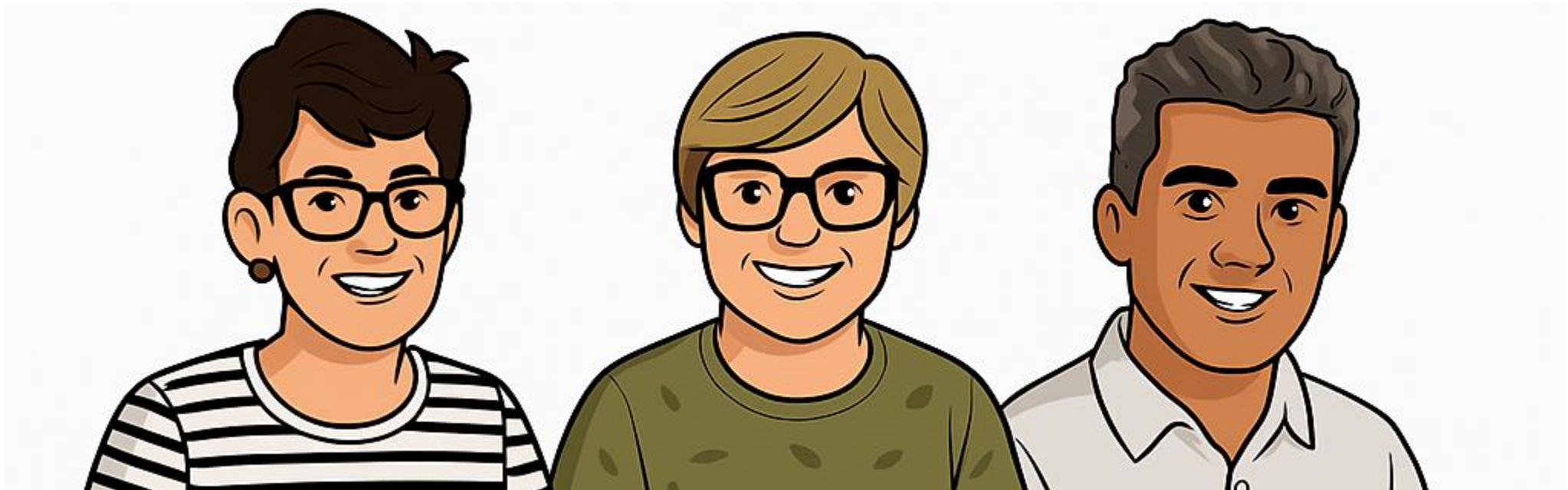


# Comenzamos en breve...



**A · D · N**  **Fabric**

# Exploración de datos en Microsoft Fabric (3)

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# ¿Quiénes somos?



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## Patrocinadores



**Amby.net**

# Agenda

- Explorar bases de datos KQL
  - Exploración visual
  - Exploración con código
    - Lenguaje KQL
    - Cuaderno Spark
    - Lenguaje SQL

# Explorar bases de datos KQL visualmente

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# Exploración visual

- A nivel de tabla
- El acceso directo no cuenta

Bases de datos KQL



Casa\_Eventos



Casa\_Eventos\_queryset



Tables



Stocks



StormEver



Shortcuts

Table data

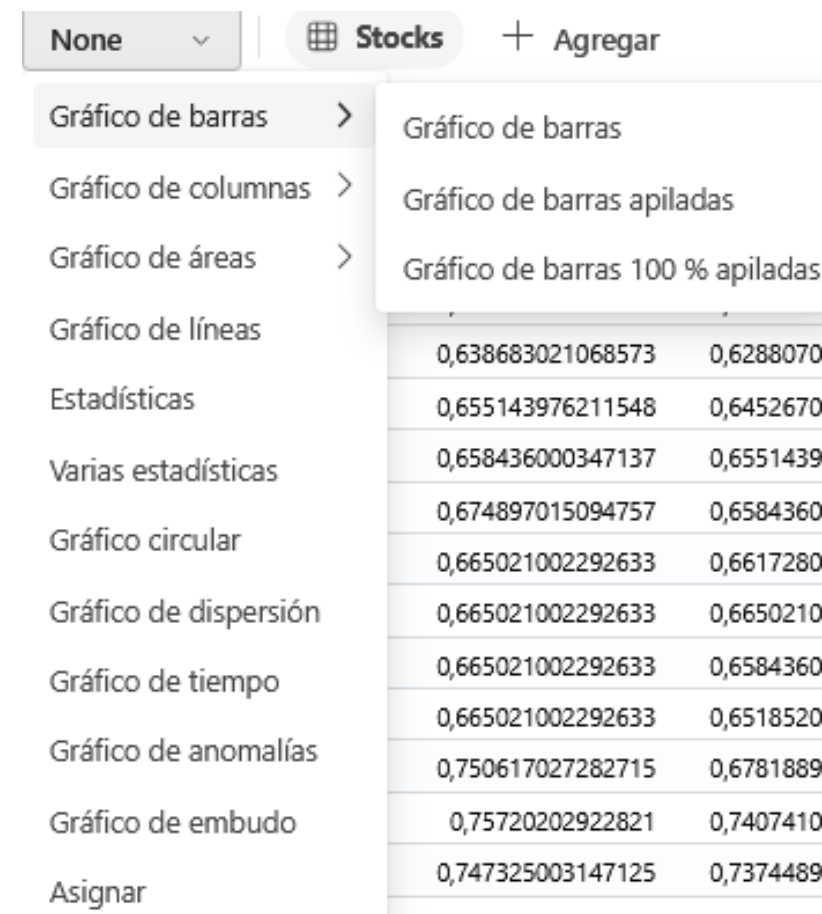
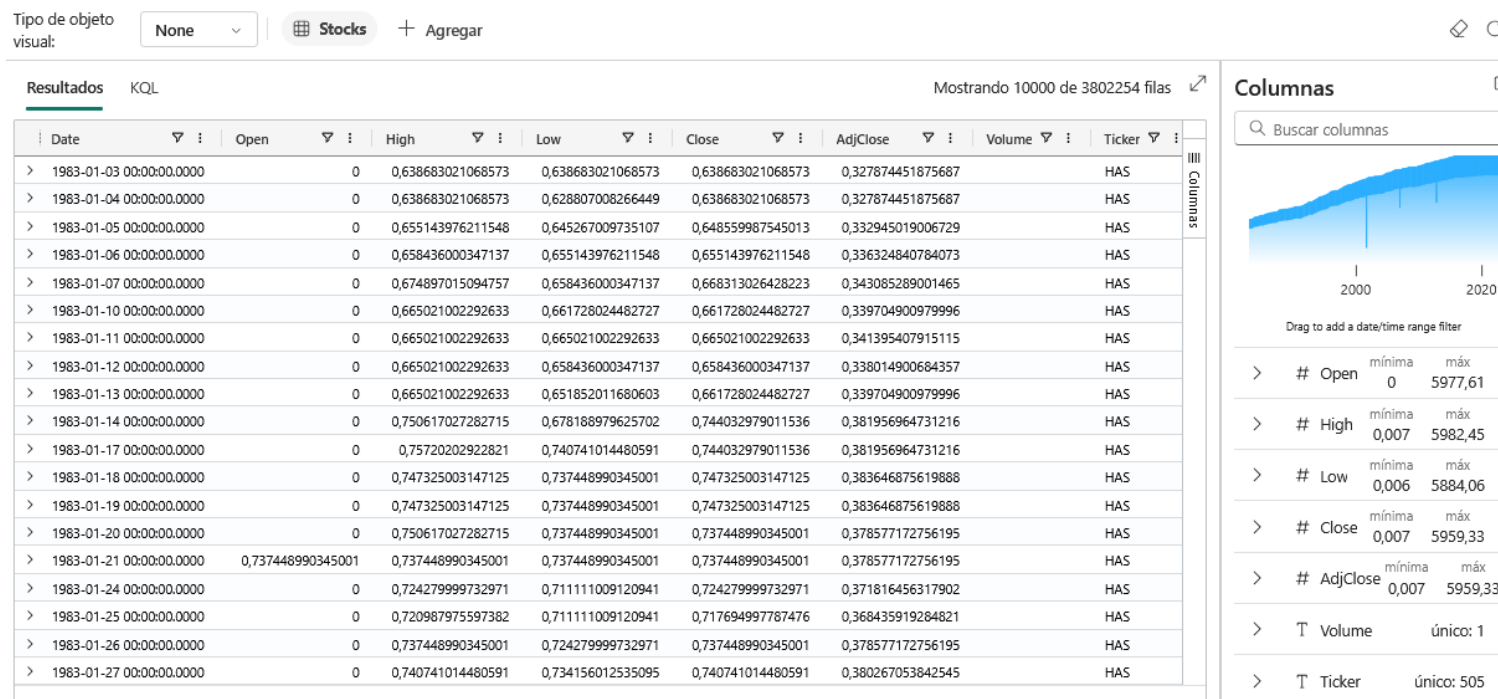


Visual exploration



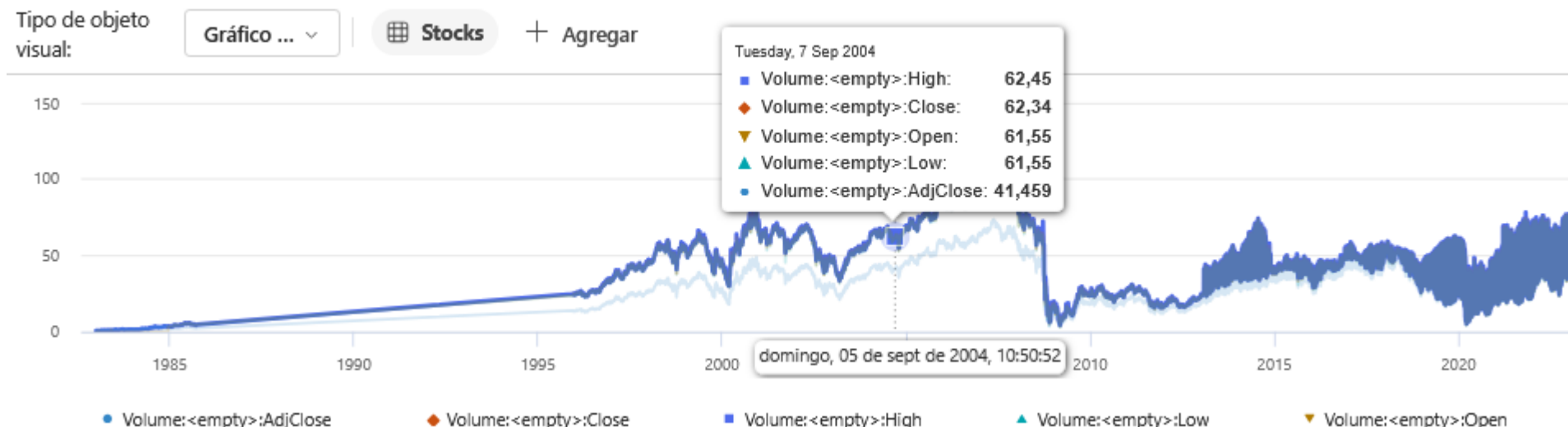
# Exploración visual

- Panel con vista preliminar de datos
- Elegir tipo de gráfico entre muchas opciones



# Tipos de gráficos

- En serie de tiempo, es excelente el gráfico de líneas



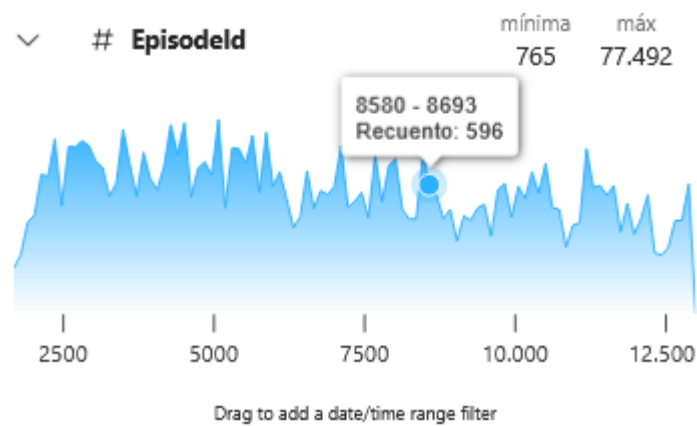
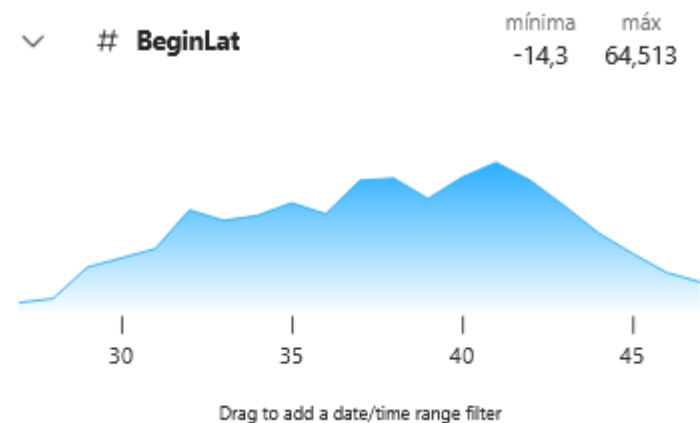
# Tipos de gráficos

- En serie de tiempo, es válido el gráfico de barras y columnas



# Estadísticas

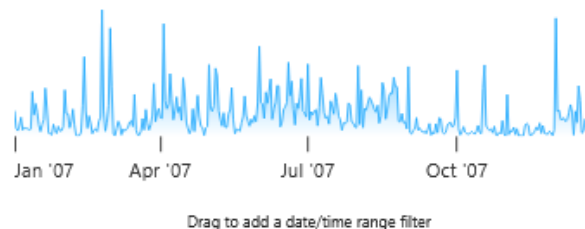
- Estadísticas y distribución a nivel de columnas



## Columnas

Q Buscar columnas

▼ ⌚ **StartTime** 1/1/2007 – 31/12/2007



> ⌚ **EndTime** 1/1/2007 – 31/12/2007

> # **EpisodId** mínima 765 máx 77.492

> # **EventId** mínima 3419 máx 467.538

▼ T **State** único: 67

|           |         |         |
|-----------|---------|---------|
| TEXAS     | 4,7 mil | (8 %)   |
| KANSAS    | 3,2 mil | (5,4 %) |
| IOWA      | 2,3 mil | (4 %)   |
| ILLINOIS  | 2 mil   | (3,4 %) |
| MISSOURI  | 2 mil   | (3,4 %) |
| GEORGIA   | 2 mil   | (3,4 %) |
| MINNES... | 1,9 mil | (3,2 %) |
| WISCON... | 1,9 mil | (3,1 %) |
| NEBRASKA  | 1,8 mil | (3 %)   |
| NEW YORK  | 1,8 mil | (3 %)   |

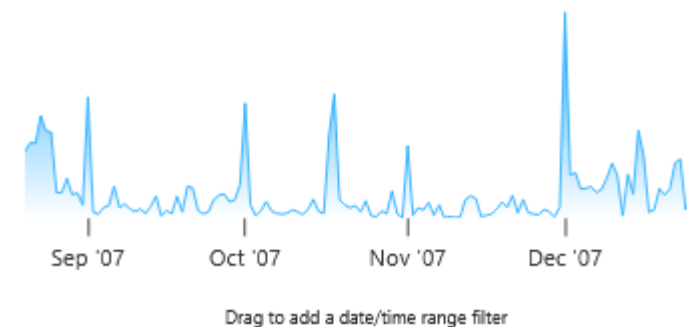
Click the visual to add a quick filter

> T **EventType** único: 46

> # **InjuriesDirect** mínima 0 máx 519

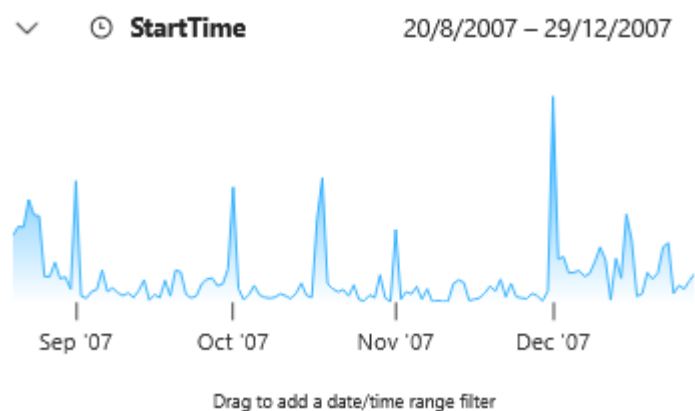
> # **InjuriesIndirect** mínima 0 máx 41

▼ ⌚ **StartTime** 20/8/2007 – 29/12/2007



# Filtros

- Desde perfil



StormEvents

StartTime between... X + Agregar

StartTime is between  
datetime(2007-08-20T04:10:06.315Z) and  
datetime(2007-12-30T00:00:00.000Z)

</> Versión preliminar de KQL

```
where StartTime between (datetime  
(2007-08-20T04:10:06.315Z) ..  
datetime(2007-12-30T00:00:00.000Z))
```

# Filtros

- Desde el menú

None ▾

StormEvents

+ Agregar

Filtro

</>

Columna

Operador

Valor

T State ▾

Equals ▾

TEXAS

# Filtros

- Desde la cabecera de columna



| EventType      | InjuriesDirect   |
|----------------|------------------|
| Thunderstorm   | Contains         |
| Winter Storm   | Contains         |
| Winter Storm   | Does not contain |
| Winter Weather | Equals           |
| Winter Weather | Does not equal   |
| Winter Weather | Begins with      |
| Winter Weather | Ends with        |
| Winter Weather | Not empty        |
| Winter Weather | Empty only       |

| EventId | State  | EventType |
|---------|--------|-----------|
| 3419    | ALASKA | Equals    |
| 5811    | ALASKA | ALASKA    |
| 3580    | ALASKA | AND OR    |
| 5041    | ALASKA | Contains  |
| 3579    | ALASKA | Filter... |

| EpisodeId | EventId | State                    |
|-----------|---------|--------------------------|
| 2592      | 4171    | Equals                   |
| 4171      | 4171    | Does not equal           |
| 1930      | 1930    | Greater than             |
| 1930      | 1930    | Greater than or equal to |
| 1930      | 1930    | Less than                |
| 1930      | 1930    | Less than or equal to    |
| 1930      | 1930    | Between                  |
| 1930      | 1930    | Blank                    |
| 1930      | 1930    | Not blank                |
| 1930      | 9490    | NEW YORK                 |


# Agregados

- Desde el menú

**Agregación**  





---

**Operador** **Nombre para mostrar (Opcional)**

count  Total

---

**Agrupar por** **Nombre para mostrar (Opcional)** **Período de tiempo (Opcional)**

 StartTime  Inicio 30 Segundos  

+ Agregar agrupación



# Opciones adicionales

- Menú contextual
  - Agrupar
  - Seleccionar
  - Resaltar detalle por color

| State          | ▼   | : | EventType               | ▼ | : |
|----------------|-----|---|-------------------------|---|---|
| NORTH CAROLINA | ↑   |   | Sort Ascending          |   |   |
| WISCONSIN      | ↓   |   | Sort Descending         |   |   |
| WISCONSIN      |     |   | Pin Column              |   |   |
| NEW YORK       |     |   |                         |   |   |
| NEW YORK       |     |   | Autosize This Column    |   |   |
| NEW YORK       |     |   | Autosize All Columns    |   |   |
| NEW YORK       |     |   |                         |   |   |
| NEW YORK       |     |   | Group by State          |   |   |
| NEW YORK       | III |   | Choose Columns          |   |   |
| NEW YORK       |     |   | Reset Columns           |   |   |
| NEW YORK       |     |   |                         |   |   |
| NEW YORK       |     |   | Orden ascendente        |   |   |
| ALASKA         |     |   | Orden descendente       |   |   |
| DELAWARE       |     |   | Sin orden               |   |   |
| OKLAHOMA       |     |   |                         |   |   |
| OKLAHOMA       |     |   | Copiar nombre de column |   |   |
| OKLAHOMA       |     |   | Color por valor         |   |   |

| Group            | :     | : |
|------------------|-------|---|
| > NORTH CAROLINA | (239) | > |
| > WISCONSIN      | (385) | > |
| > NEW YORK       | (339) | > |
| > ALASKA         | (126) | > |
| > DELAWARE       | (73)  | > |
| > OKLAHOMA       | (347) | > |
| > INDIANA        | (234) | > |

| Choose Columns                      |                  |
|-------------------------------------|------------------|
| <input checked="" type="checkbox"/> | Search...        |
| <input checked="" type="checkbox"/> | StartTime        |
| <input checked="" type="checkbox"/> | EndTime          |
| <input checked="" type="checkbox"/> | Episodeld        |
| <input checked="" type="checkbox"/> | EventId          |
| <input checked="" type="checkbox"/> | State            |
| <input checked="" type="checkbox"/> | EventType        |
| <input checked="" type="checkbox"/> | InjuriesDirect   |
| <input checked="" type="checkbox"/> | InjuriesIndirect |
| <input checked="" type="checkbox"/> | DeathsDirect     |

| State          | ▼ | : |
|----------------|---|---|
| NORTH CAROLINA |   |   |
| WISCONSIN      |   |   |
| WISCONSIN      |   |   |
| NEW YORK       |   |   |
| NEW YORK       |   |   |
| NEW YORK       |   |   |
| NEW YORK       |   |   |
| NEW YORK       |   |   |
| NEW YORK       |   |   |
| NEW YORK       |   |   |
| NEW YORK       |   |   |
| NEW YORK       |   |   |
| NEW YORK       |   |   |
| ALASKA         |   |   |
| DELAWARE       |   |   |
| OKLAHOMA       |   |   |

# Explorar bases de datos KQL con código

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# Estructura de una consulta KQL

StormEvents

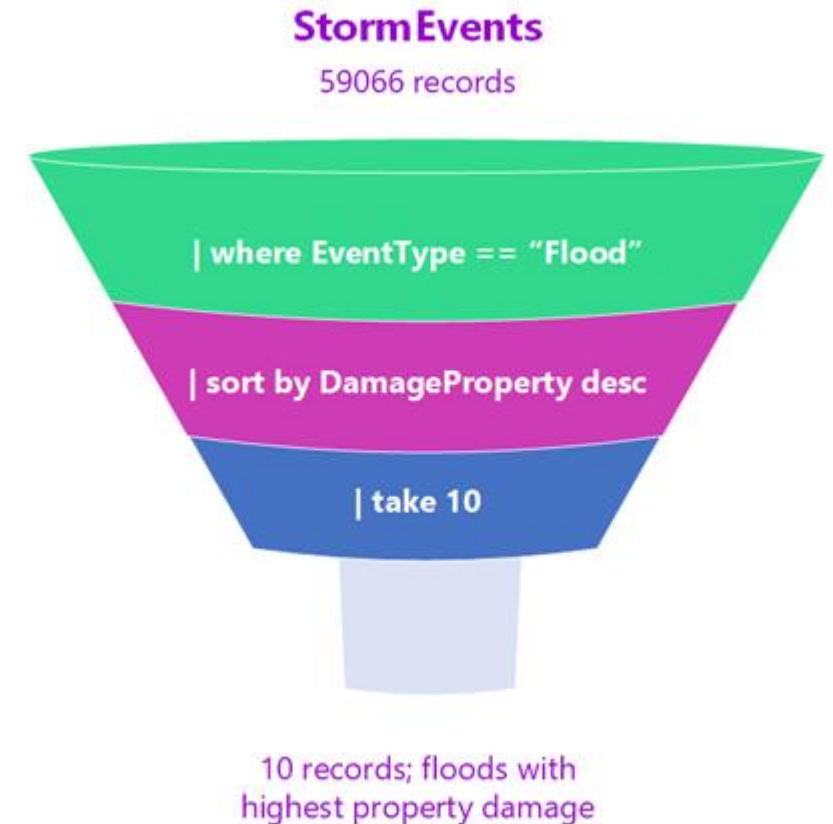
```
| where EventType == "Flood"  
| sort by DamageProperty desc  
| take 10
```

El **resultado** es una tabla con **10 filas**.

# Estructura de una consulta KQL

StormEvents

```
| where EventType == "Flood"  
| sort by DamageProperty desc  
| take 10
```



# Estructura de una consulta KQL

StormEvents

```
| where EventType == "Flood"  
| sort by DamageProperty desc  
| take 10  
| summarize sum(DamageProperty)
```

El **resultado** es una tabla con **una sola fila y una sola columna**.

# Demos

Explorar bases de datos KQL con lenguaje SQL



# Explorar bases de datos KQL con lenguaje SQL

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# Explorar bases de datos KQL lenguaje SQL



# Demos

Explorar bases de datos KQL con lenguaje SQL





**Siguiente encuentro**

# Transformar datos en Fabric (1)

- Transformar datos con Flujos de datos Gen2

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**¡Gracias!**

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¿Preguntas?

# Recursos - KQL

- <https://learn.microsoft.com/es-es/kusto/query/t-sql?view=microsoft-fabric>
- <https://detective.kusto.io/>
- <https://learn.microsoft.com/en-us/fabric/real-time-intelligence/notebooks>
- <https://learn.microsoft.com/es-es/kusto/query/sql-cheat-sheet?view=microsoft-fabric>

# Recursos

- Blog oficial
  - <https://blog.fabric.microsoft.com/en-us/blog>
- Microsoft Learn Fabric en español
  - <https://learn.microsoft.com/es-es/fabric/>
- Curso en LinkedIn Learning en español / inglés
  - <https://www.linkedin.com/learning/search?entityType=COURSE&keywords=Fabric>
- Applied skills
  - [https://learn.microsoft.com/en-us/credentials/browse/?credential\\_types=applied%20skills&products=fabric](https://learn.microsoft.com/en-us/credentials/browse/?credential_types=applied%20skills&products=fabric)

# Recursos



- Recursos - Microsoft
- <https://www.microsoft.com/en-us/microsoft-fabric/blog/2025/03/31/fabcon-2025-fueling-tomorrows-ai-with-new-agentic-capabilities-and-security-innovations-in-fabric/>
- <https://powerbi.microsoft.com/en-us/blog/grace-period-for-transitioning-from-power-bi-premium-to-microsoft-fabric/>



# Recursos - Sitios, canales y blogs

- ADN Fabric
  - <https://www.linkedin.com/company/adnfabric>
- YouTube ADN Fabric
  - <https://www.youtube.com/@ADNFabric>
- Recursos de dataXbi
  - <https://www.dataxbi.com/fabric/>