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1. RT BIKES EVENTHOUSE
2. //Here are two articles to help you get started with KQL:
3. //KQL reference guide - https://aka.ms/KQLguide
4. //SQL - KQL conversions - https://aka.ms/sqlcheatsheet
5. // Use 'take' to view a sample number of records in the table and check
   the data.
6. BikesRawData
7. | take 100
8.
9. Explain
10. Select top 100 *
11. From BikesRawData
12.
13.BikesRawData
14. project BikepointID, Street, Neighbourhood, Latitude, Longitude,
   No_Bikes, No_Empty_Docks
15. | take int(100)
16.
17.// View a representation of the schema as a table with column names,
   column type, and data type.
18.BikesRawData
19. | getschema
20. | project ColumnName, ColumnType
21. BIKES BRONZE DATA
22.///Moving BikesRawData Table to Bronze Folder
23..alter table BikesRawData (
24. TimeStamp: datetime,
25.BikepointID:
                   string,
26. Street: string,
27. Neighbourhood: string,
28.Latitude:
               dynamic,
29. Longitude: dynamic,
30.No_Bikes:
               long,
31.No_Empty_Docks: long)
32.with (folder = "Bronze")
```

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33. BIKES SILVER DATA
34.// | into table BikesTransformedData
35.// Adoc Querty for Analysis
36..set-or-replace BikesTransformedData <
37.BikesRawData
38. parse BikepointID with * "BikePoints " BikepointID:int
39. extend BikesToBeFilled = No Empty Docks - No Bikes
40. extend Action = iff(BikesToBeFilled > 0, tostring(BikesToBeFilled),
   "NA")
41.//Created functions to transform Bronze Raw Data
42..create-or-alter function with (docstring = "Transformed raw bike
   data", folder = "SilverLayer") TransformationBikeData() {
43.
       BikesRawData
       parse BikepointID with * "BikePoints " BikepointID:int
44.
       extend BikesToBeFilled = No Empty Docks - No Bikes
45.
       extend Action = iff(BikesToBeFilled > 0,
   tostring(BikesToBeFilled), "NA")
47.}
48.// IsEnabled (bool) - States if update policy is true - enabled, or
   false - disabled
49.// source (string) - Name of the table that triggers invocation of the
   update policy
50.// Query (string) - A query used to produce data for the update
51.// IsTransactional (bool) - States if the update policy is
   transactional or not, default is false). If transactional and the
   update policy fails, the source table is not updated.
52.// PropagateIngestionProperties (bool) - States if properties specified
   during ingestion to the source table, such as extent tags and creation
   time, apply to the target table
53.// read more - https://aka.ms/updatepolicy
54.//Enable Update Policy for Silver Table using Function
55..alter table BikesTransformedData policy update
56.```[{
57.
       "IsEnabled": true,
     "Source": "BikesRawData",
58.
     "Query": "TransformationBikeData",
59.
       "IsTransactional": false,
60.
      "PropagateIngestionProperties": false
61.
62.}1```
63.// View a representation of the schema as a table with column names,
   column type, and data type.
64.c
65. getschema
66. project ColumnName, ColumnType
```

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67.
68.///Moving BikesRawData Table to Bronze Folder
69..alter table BikesTransformedData (
70.TimeStamp: datetime,
71.BikepointID:
                   int ,
72. Street: string,
73. Neighbourhood: string,
74.Latitude:
              dynamic,
75.Longitude: dynamic,
76.No_Bikes:
               long,
77. No_Empty_Docks: long,
78.BikesToBeFilled:
79.Action: string)
80.with (folder = "Silver")
81. BIKES GOLD DATA
82..create-or-alter materialized-view with (folder = "Gold")
   AggregatedData on table BikesTransformedData
83.{
       BikesTransformedData
84.
85.
       | summarize arg_max(TimeStamp, No_Bikes) by BikepointID
86.}
87.
88.AggregatedData
89. | sort by BikepointID
90. render areachart with (ycolumns=No_Bikes,xcolumn=BikepointID)
```