CODE

```
SET ThousandSep=',';

SET DecimalSep='.';

SET MoneyThousandSep=',';

SET MoneyDecimalSep='.';

SET MoneyFormat='$ ###0.00;-$ ###0.00';

SET TimeFormat='h:mm:ss TT';

SET DateFormat='M/D/YYYY';

SET TimestampFormat='M/D/YYYY h:mm:ss[.fff] TT';

SET FirstWeekDay=6;

SET BrokenWeeks=1;

SET ReferenceDay=0;

SET FirstMonthOfYear=1;

SET CollationLocale='en-US';

SET CreateSearchIndexOnReload=1;

SET MonthNames='Jan;Feb;Mar;Apr;May;Jun;Jul;Aug;Sep;Oct;Nov;Dec';

SET LongMonthNames='January;February;March;April;May;June;July;August;September;October;November;December';

SET DayNames='Mon;Tue;Wed;Thu;Fri;Sat;Sun';

SET LongDayNames='Monday;Tuesday;Wednesday;Thursday;Friday;Saturday;Sunday';

SET NumericalAbbreviation='3:k;6:M;9:G;12:T;15:P;18:E;21:Z;24:Y;-3:m;-6:µ;-9:n;-12:p;-15:f;-18:a;-21:z;-24:y';
```

Main Code

```
Set dataManagerTables = ','Airline Dataset Updated - v2';

//This block renames script tables from non generated section which conflict with the names of managed tables

For each name in $(dataManagerTables)

    Let index = 0;

    Let currentName = name;

    Let tableNumber = TableNumber(name);
```

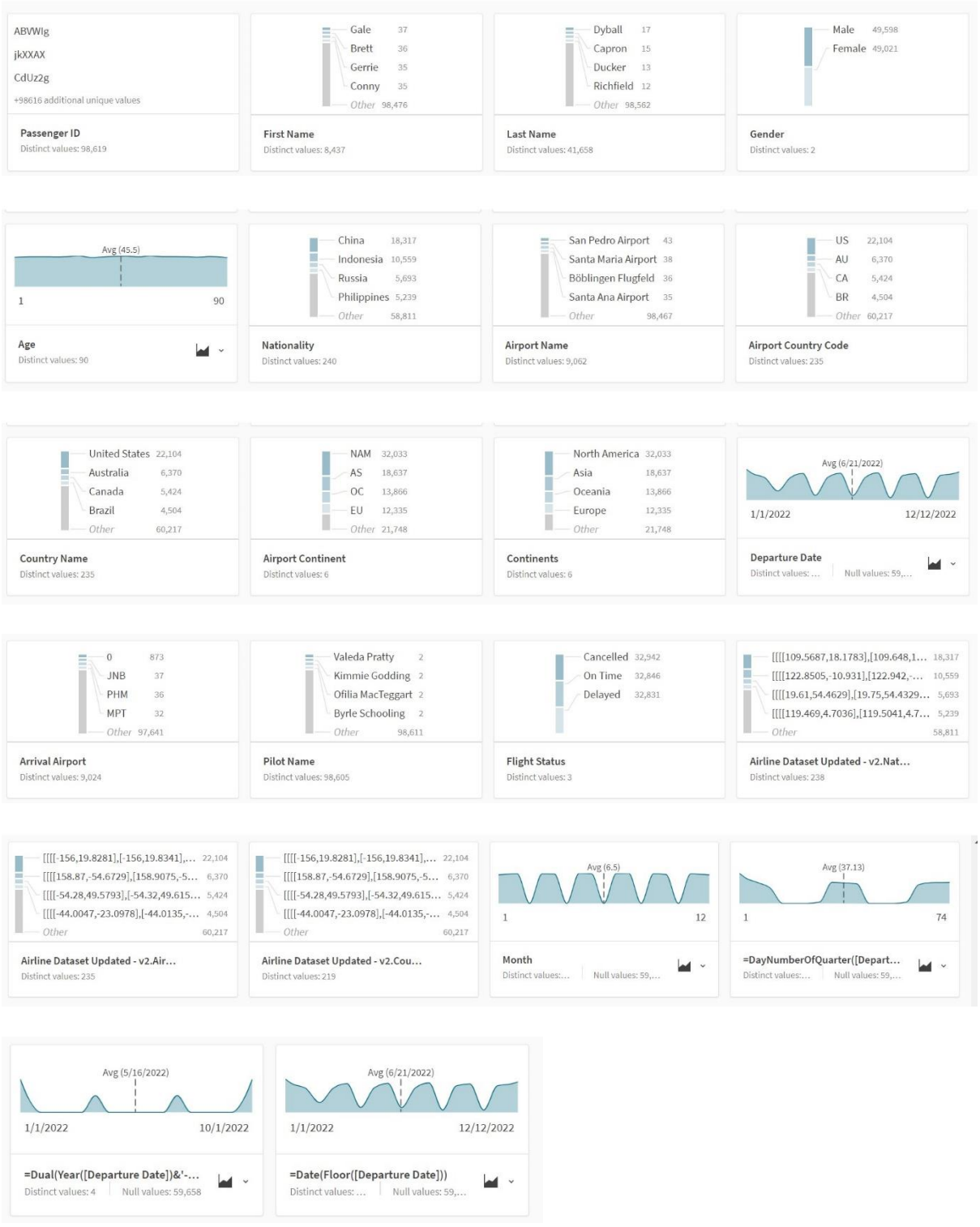
```
    Let matches = 0;
    Do while not IsNull(tableNumber) or (index > 0 and matches > 0)
        index = index + 1;
        currentName = name & '-' & index;
        tableNumber = TableNumber(currentName)
        matches = Match('$(currentName)', $(dataManagerTables));
    Loop
    If index > 0 then
            Rename Table '$(name)' to '$(currentName)';
    EndIf;
Next;
Set dataManagerTables = ;
Unqualify *;
__countryAliasesBase:
LOAD
            Alias AS [__Country],
            ISO3Code AS [__ISO3Code]
FROM [lib://DataFiles/countryAliases.qvd]
(qvd);
__countryGeoBase:
LOAD
            ISO3Code AS [__ISO3Code],
            ISO2Code AS [__ISO2Code],
            Polygon AS [__Polygon]
FROM [lib://DataFiles/countryGeo.qvd]
(qvd);
__countryName2IsoThree:
MAPPING LOAD
            __Country,
            __ISO3Code
```

```
RESIDENT __countryAliasesBase;

__countryCodeIsoThree2Polygon:
MAPPING LOAD
        __ISO3Code,
        __Polygon
RESIDENT __countryGeoBase;

__countryCodeIsoTwo2Polygon:
MAPPING LOAD
        __ISO2Code,
        __Polygon
RESIDENT __countryGeoBase;

[Airline Dataset Updated - v2]:
LOAD
        [Passenger ID],
        [First Name],
        [Last Name],
        [Gender],
        [Age],
        [Nationality],
        [Airport Name],
        [Airport Country Code],
        [Country Name],
        [Airport Continent],
        [Continents],
        Date(Date#([Departure Date], 'MM-DD-YYYY') ) AS [Departure Date],
        [Arrival Airport],
        [Pilot Name],
```

```
	[Flight Status],

	APPLYMAP( '__countryCodeIsoThree2Polygon', APPLYMAP(
'__countryName2IsoThree', LOWER([Nationality])), '-') AS [Airline Dataset Updated -
v2.Nationality_GeoInfo],

	APPLYMAP( '__countryCodeIsoTwo2Polygon', UPPER([Airport Country Code]), '-')
AS [Airline Dataset Updated - v2.Airport Country Code_GeoInfo],

	APPLYMAP( '__countryCodeIsoThree2Polygon', APPLYMAP(
'__countryName2IsoThree', LOWER([Country Name])), '-') AS [Airline Dataset Updated -
v2.Country Name_GeoInfo],

	Month((Date(Date#([Departure Date], 'MM-DD-YYYY') ))) AS [Month]

 FROM [lib://DataFiles/Airline Dataset Updated - v2.csv]

(txt, utf8, embedded labels, delimiter is ',', msq);

TAG FIELD [Nationality] WITH '$geoname', '$relates_Airline Dataset Updated -
v2.Nationality_GeoInfo';

TAG FIELD [Airline Dataset Updated - v2.Nationality_GeoInfo] WITH '$geopolygon',
'$hidden', '$relates_Nationality';

TAG FIELD [Airport Country Code] WITH '$geoname', '$relates_Airline Dataset Updated -
v2.Airport Country Code_GeoInfo';

TAG FIELD [Airline Dataset Updated - v2.Airport Country Code_GeoInfo] WITH
'$geopolygon', '$hidden', '$relates_Airport Country Code';

TAG FIELD [Country Name] WITH '$geoname', '$relates_Airline Dataset Updated -
v2.Country Name_GeoInfo';

TAG FIELD [Airline Dataset Updated - v2.Country Name_GeoInfo] WITH '$geopolygon',
'$hidden', '$relates_Country Name';


DROP TABLES __countryAliasesBase, __countryGeoBase;

[autoCalendar]:

  DECLARE FIELD DEFINITION Tagged ('$date')

FIELDS

  Dual(Year($1), YearStart($1)) AS [Year] Tagged ('$axis', '$year'),

  Dual('Q'&Num(Ceil(Num(Month($1))/3)),Num(Ceil(NUM(Month($1))/3),00)) AS
[Quarter] Tagged ('$quarter', '$cyclic'),

  Dual(Year($1)&'-Q'&Num(Ceil(Num(Month($1))/3)),QuarterStart($1)) AS [YearQuarter]
Tagged ('$yearquarter', '$qualified'),
```

```
  Dual('Q'&Num(Ceil(Num(Month($1))/3)),QuarterStart($1)) AS [_YearQuarter] Tagged
('$yearquarter', '$hidden', '$simplified'),

  Month($1) AS [Month] Tagged ('$month', '$cyclic'),

  Dual(Year($1)&'-'&Month($1), monthstart($1)) AS [YearMonth] Tagged ('$axis',
'$yearmonth', '$qualified'),

  Dual(Month($1), monthstart($1)) AS [_YearMonth] Tagged ('$axis', '$yearmonth',
'$simplified', '$hidden'),

  Dual('W'&Num(Week($1),00), Num(Week($1),00)) AS [Week] Tagged ('$weeknumber',
'$cyclic'),

  Date(Floor($1)) AS [Date] Tagged ('$axis', '$date', '$qualified'),

  Date(Floor($1), 'D') AS [_Date] Tagged ('$axis', '$date', '$hidden', '$simplified'),

  If (DayNumberOfYear($1) <= DayNumberOfYear(Today()), 1, 0) AS [InYTD] ,

  Year(Today())-Year($1) AS [YearsAgo] ,

  If (DayNumberOfQuarter($1) <= DayNumberOfQuarter(Today()),1,0) AS [InQTD] ,

  4*Year(Today())+Ceil(Month(Today())/3)-4*Year($1)-Ceil(Month($1)/3) AS [QuartersAgo]
,

  Ceil(Month(Today())/3)-Ceil(Month($1)/3) AS [QuarterRelNo] ,

  If(Day($1)<=Day(Today()),1,0) AS [InMTD] ,

  12*Year(Today())+Month(Today())-12*Year($1)-Month($1) AS [MonthsAgo] ,

  Month(Today())-Month($1) AS [MonthRelNo] ,

  If(WeekDay($1)<=WeekDay(Today()),1,0) AS [InWTD] ,

  (WeekStart(Today())-WeekStart($1))/7 AS [WeeksAgo] ,

  Week(Today())-Week($1) AS [WeekRelNo] ;


DERIVE FIELDS FROM FIELDS [Departure Date] USING [autoCalendar] ;
```

OUTPUT


ABVWlg
jkXXAX
CdUz2g
+98616 additional unique values
Passenger ID
Distinct values: 98,619
Gale 37
Brett 36
Gerrie 35
Conny 35
Other 98,476
First Name
Distinct values: 8,437
Dyball 17
Capron 15
Ducker 13
Richfield 12
Other 98,562
Last Name
Distinct values: 41,658
Male 49,598
Female 49,021
Gender
Distinct values: 2
Avg (45.5)
1
90
Age
Distinct values: 90
China 18,317
Indonesia 10,559
Russia 5,693
Philippines 5,239
Other 58,811
Nationality
Distinct values: 240
San Pedro Airport 43
Santa Maria Airport 38
Böblingen Flugfeld 36
Santa Ana Airport 35
Other 98,467
Airport Name
Distinct values: 9,062
US 22,104
AU 6,370
CA 5,424
BR 4,504
Other 60,217
Airport Country Code
Distinct values: 235
United States 22,104
Australia 6,370
Canada 5,424
Brazil 4,504
Other 60,217
Country Name
Distinct values: 235
NAM 32,033
AS 18,637
OC 13,866
EU 12,335
Other 21,748
Airport Continent
Distinct values: 6
North America 32,033
Asia 18,637
Oceania 13,866
Europe 12,335
Other 21,748
Continents
Distinct values: 6
Avg (6/21/2022)
1/1/2022
12/12/2022
Departure Date
Distinct values: ...
Null values: 59,...
0 873
JNB 37
PHM 36
MPT 32
Other 97,641
Arrival Airport
Distinct values: 9,024
Valeda Pratty 2
Kimmie Godding 2
Ofilia MacTeggart 2
Byrle Schooling 2
Other 98,611
Pilot Name
Distinct values: 98,605
Cancelled 32,942
On Time 32,846
Delayed 32,831
Flight Status
Distinct values: 3
[[[[109.5687,18.1783],[109.648,1... 18,317
[[[[122.8505,-10.931],[122.942,-... 10,559
[[[[19.61,54.4629],[19.75,54.4329... 5,693
[[[[119.469,4.7036],[119.5041,4.7... 5,239
Other 58,811
Airline Dataset Updated - v2.Nat...
Distinct values: 238
[[[[-156,19.8281],[-156,19.8341],... 22,104
[[[[158.87,-54.6729],[158.9075,-5... 6,370
[[[[-54.28,49.5793],[-54.32,49.615... 5,424
[[[[-44.0047,-23.0978],[-44.0135,-... 4,504
Other 60,217
Airline Dataset Updated - v2.Air...
Distinct values: 235
[[[[-156,19.8281],[-156,19.8341],... 22,104
[[[[158.87,-54.6729],[158.9075,-5... 6,370
[[[[-54.28,49.5793],[-54.32,49.615... 5,424
[[[[-44.0047,-23.0978],[-44.0135,-... 4,504
Other 60,217
Airline Dataset Updated - v2.Cou...
Distinct values: 219
Avg (6.5)
1
12
Month
Distinct values:...
Null values: 59,...
Avg (37.13)
1
74
=DayNumberOfQuarter([Depart...
Distinct values:...
Null values: 59,...
Avg (5/16/2022)
1/1/2022
10/1/2022
=Dual(Year([Departure Date])&'-...
Distinct values: 4
Null values: 59,658
Avg (6/21/2022)
1/1/2022
12/12/2022
=Date(Floor([Departure Date]))
Distinct values: ...
Null values: 59,...