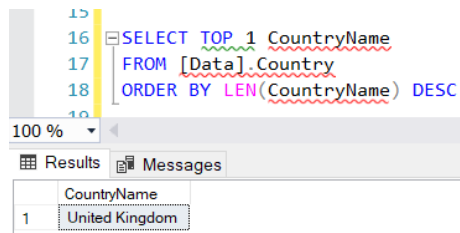# [Data].[Country]

Constraints:

• None

Indexes:

• None

Column Properties/Characteristics

CountryName

• Everything is unique

• Data type: nvarchar(150)

  ○ Longest country name in world ~60 characters

  ○ Longest country name in database ~15 characters

```
15
16  SELECT TOP 1 CountryName
17    FROM [Data].Country
18    ORDER BY LEN(CountryName) DESC
19
```
100 %

Results | Messages

	CountryName
1	United Kingdom

• Names are only letters

CountryISO2

• Everything is unique

• Dependent on country name (or whatever would be used to signify the country)

• Data type: nvarchar(10), but all data is 2 characters

• Consists of only letters

CountryISO3

• Everything is unique

- Dependent on country name (or whatever would be used to signify the country)

- Data type: nvarchar(10), but all data is 3 characters

- Consists of only letters

SalesRegion

- Lots of redundancy

- Not directly dependent on the country, more transitively dependent

- Data type: nvarchar(20)

  ○ Longest data is ~15 characters

CountryFlag

- Only contains NULLs

FlagFileName

- Only contains NULLS

FlagFileType

- Only contains NULLS

[Data].[Customer]

Constraints

- None

Indexes

- None

Column Properties / Characteristics

CustomerID

• Everything is unique

• Data type: nvarchar(5)

• Not a convenient key, can just format to string when needed from int

CustomerName

• Some repetition, changes based on country

    ○ So same customer can have multiple IDs for differing regions

• Mix of actual people and companies

• Data Type: nvarchar(150)

    ○ Longest data is ~40 characters

Address1

• Everything is unique, but does not necessarily need to be

• Data Type: nvarchar(50)

Address2

• Repeated column group, also contains many nulls

• Data Type: nvarchar(50)

Town

• Repeated information

• Not directly dependent on customer name, moreso the address

• Data type: nvarchar(50)

PostCode

• Not unique

• Contains NULLs

• Not directly dependent on the customer, but the address

Country

• Not directly dependent on the customer

• Data type: nchar(10), but each thing is only 2 characters

IsReseller

• Directly dependent on customer

• Data type: bit

IsCreditRisk

• Directly dependent on customer

• Data type: bit

[Data].[Make]

Constraints

• None

Indexes

• None

Column Properties / Characteristics

MakeID

• Unique

• Data Type: smallint

MakeName

• Unique entries

• Data Type: nvarchar(100)

    ○ Longest data is ~15 characters

MakeCountry

• Not unique

• Directly depends on make

• Data Type: char(3)

• Really just country's ISO3

[Data].[Model]

Constraints

• None

Indexes

• None

Column Properties / Characteristics

ModelID

• Unique

• Data type: smallint

MakeID

• Repeated info, links it to Make table (no relationship set)

• Data type: smallint

ModelName

• Unique data, but it does not necessarily have to be (have potential for variants)

• Data type: nvarchar(150)

  ○ Longest entry is ~15 characters

ModelVariant

• Mostly NULL, but does have data entries and also an empty entry

• Data type: nvarchar(150)

  ○ Longest entry is ~15 characters

YearFirstProduced

• Mostly NULL, but does have data entries

• Data type: char(4)

YearLastProduced

• Mostly NULL, but does have data entries

• Data type: char(4)

[Data].[PivotTable]

Constraints

- None

Indexes

- None

Column Properties / Characteristics

Color

- Unique

- Data type: nvarchar(50)

    ○ Longest entry ~30 characters

2015, 2016, 2017, 2018

- Can have NULLs, could have repeated values in theory

- Repeated column group (have a column per year)

- Data type: numeric(38,2)

Other Table Characteristics

- It is a pivot table, used to aggregate and summarize large data across the board

[Data].[Sales]

Constraints

- None

Indexes

- None

Column Properties / Characteristics

SalesID

• Unique

• Data type: int

Customer ID

• Does have repetition, also links back to customer table (but no actual relationship established)

• Data type: nvarchar(5)

Invoice Number

• Unique

• Seems to be based off currency (3 characters) + customer country (2 characters) + salesID formatted to 3 digits

• Data type: char(8)

TotalSalePrice

• Need not be unique

• Data type: numeric(18,2)

SaleDate

• Need not be unique

• Data type: datetime

ID

• Redundant information and repeated column group

• It is identical to SalesID

• Data type: int

[Data].[SalesDetails]

Constraints
• None

Indexes
• None

Column Properties / Characteristics

SalesDetailsID
• Unique

• Data Type: int

SalesID
• Non-unique, links to sales table (but no official relationships)

• Data type: int

LineItemNumber
• Non-unique, has to be linking to some other table (but no official relationships)

• Data type: tiny int

• Seems to be dependent on if 1 sales id has > 1 salesdetails entry

StockID
• Looks unique

• Data type: varchar(50)

• Based of stock table (though no official relationship)

SalePrice

• Not necessarily unique

• Data type: numeric(18,2)

• Depends directly on SalesID, rather than SalesDetailsID

LineItemDiscount

• Not necessarily unique, can be null

• Data type: numeric(18, 2)

• Depends more on the line item than sales detail

[Data].[Stock]

Constraints

• None

Indexes

• None

Column Properties / Characteristics

StockCode

• Is Unique

• Data type: nvarchar(50)

ModelID

• Not unique, has a null entry

• Data type: smallint

• Based off model table (though no official relationships)

Cost

• Not necessarily unique, has a null entry

• Data type: money

RepairsCost

• Not necessarily unique, has null entry

• Data type: money

PartsCost

• Not necessarily unique

• Data type: money

TransportInCost

• Not necessarily unique, has a null entry

• Data type: money

IsRHD

• Not unique

• Data type: bit

• States if right-handed or not

Color

• Not unique, has a null entry

• Data type: nvarchar(50)

• Not necessarily dependent on stock, but rather model

BuyerComments

• Not necessarily unique, mostly has null values

• Data type: nvarchar(4000)

DateBought

• Not necessarily unique, has null entry

• Data type: date

TimeBought

• not necessarily unique, has null entry. Seems every time is the same

• Data type: time(7)