

Opdracht 4.

U heeft eindelijk een eerste versie ontvangen van het Functioneel Ontwerp c.q. het mapping document waarmee u kunt controleren of de transformatie van de data van Source naar Target (van Production.Product) correct verloopt. Natuurlijk gaat u hiermee direct aan de slag om eventuele fouten zo spoedig mogelijk te detecteren.

Het mapping document:

Naam attribuut		source->target	opmerking
ProductID	PK		
Name		overnemen	
Productnummer		overnemen	
MakeFlag		overnemen	
FinishedGoodsFlag		overnemen	
Color		Als Black of Zwart dan Black, als Blue dan overnemen, als Grey dan overnemen, als Multi of Veel dan Multi, als Red of Rood dan Red, als Silver dan overnemen, als Silver/Black dan overnemen, als White of Wit dan White, als Geel of Yellow dan Yellow, anders leeg	
SafetyStockLevel		overnemen	
ReorderPoint		overnemen	
StandardCost		overnemen	
ListPrice		overnemen	
Size		overnemen	
SizeUnitMeasureCode	FK		
WeightUnitMeasureCode	FK		
Weight		overnemen	
DaysToManufacture		overnemen	
ProductLine		overnemen	
Class		Als M dan overnemen, Als L of XL dan L, Als H dan H als leeg dan null	
Style		overnemen	
ProductSubCategoryID	FK		
ProductModelID	FK		
SellStartDate		overnemen	
SellEndDate		overnemen	
DiscontinuedDate		overnemen	
rowguid	unq_ident		
ModifiedDate		overnemen	

Taak 4a.

Controleer met behulp van SQL de bovenstaande mapping, d.w.z. of de laadactie en transformatie van Source naar Target conform verwachting heeft plaatsgevonden.

Wat zijn uw bevindingen ten aanzien van de datakwaliteit?

Voorbeelduitwerking:

Query (alleen op Color...wip):

```
Select
[ProductID],
[Name],
[ProductNumber],
[MakeFlag],
[FinishedGoodsFlag],
Case when[Color] is null then null
      when[Color] ='Zwart' then 'Black'
      when[Color] ='Veel' then 'Multi'
      when[Color] ='Rood' then 'Red'
      when[Color] ='Wit' then 'White'
      when [Color] ='Geel' then 'Yellow'
      else [Color] end as Color,
[SafetyStockLevel],
[ReorderPoint],
[StandardCost],
[ListPrice],
[Size],
[SizeUnitMeasureCode],
[WeightUnitMeasureCode],
[Weight],
[DaysToManufacture],
[ProductLine],
[Class],
[Style],
[ProductSubcategoryID],
[ProductModelID],
[SellStartDate],
[SellEndDate],
[DiscontinuedDate],
[rowguid],
[ModifiedDate]
from AdventureWorks2012_Bron.[Production].[Product]
```

except

```
Select
[ProductID],
[Name],
[ProductNumber],
[MakeFlag],
[FinishedGoodsFlag],
[Color],
[SafetyStockLevel],
[ReorderPoint],
[StandardCost],
[ListPrice],
[Size],
[SizeUnitMeasureCode],
[WeightUnitMeasureCode],
[Weight],
[DaysToManufacture],
[ProductLine],
[Class],
[Style],
[ProductSubcategoryID],
[ProductModelID],
[SellStartDate],
[SellEndDate],
[DiscontinuedDate],
[rowguid],
[ModifiedDate]
from AdventureWorks2012.[Production].[Product]
```

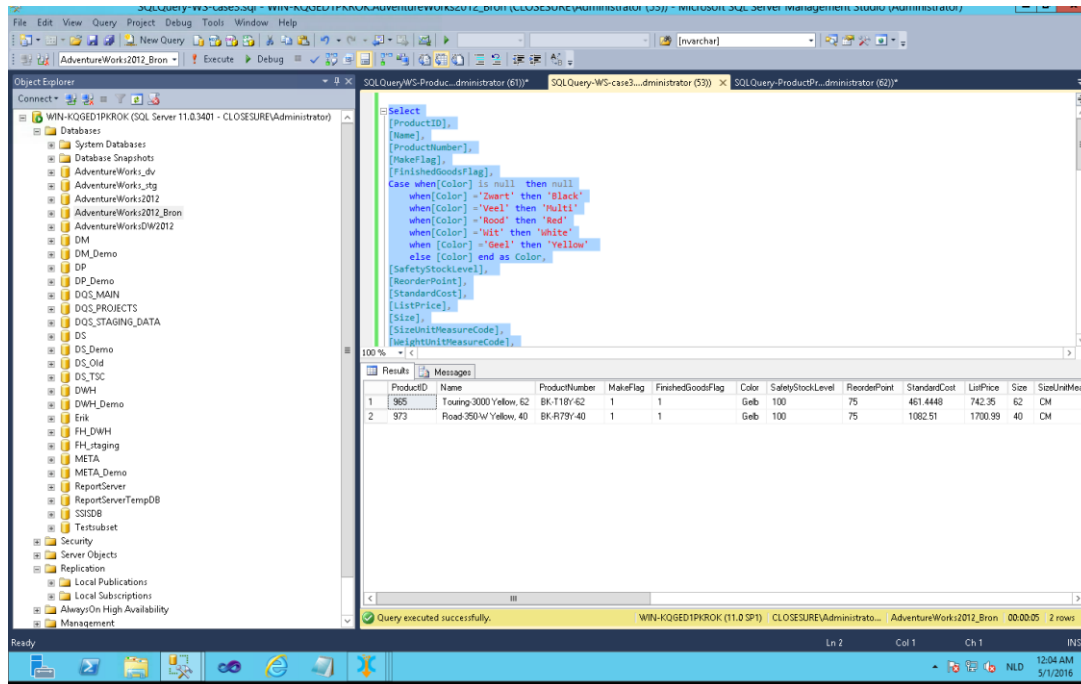
;

Taak 4b.

Realiseer een overzichtje middels DataCleaner.

DataCleaner

- 1) Validatie geldige waarden d.m.v. Validate in dictionary - lijst met waarden (in dit geval Color: White, Black, Wit , Zwart, Geel etc.)
- 2) Ongeldige waarden controleren op nul values
- 3) Plain search/replace - transformatie tabel
Wit - White
Zwart-Black
etc



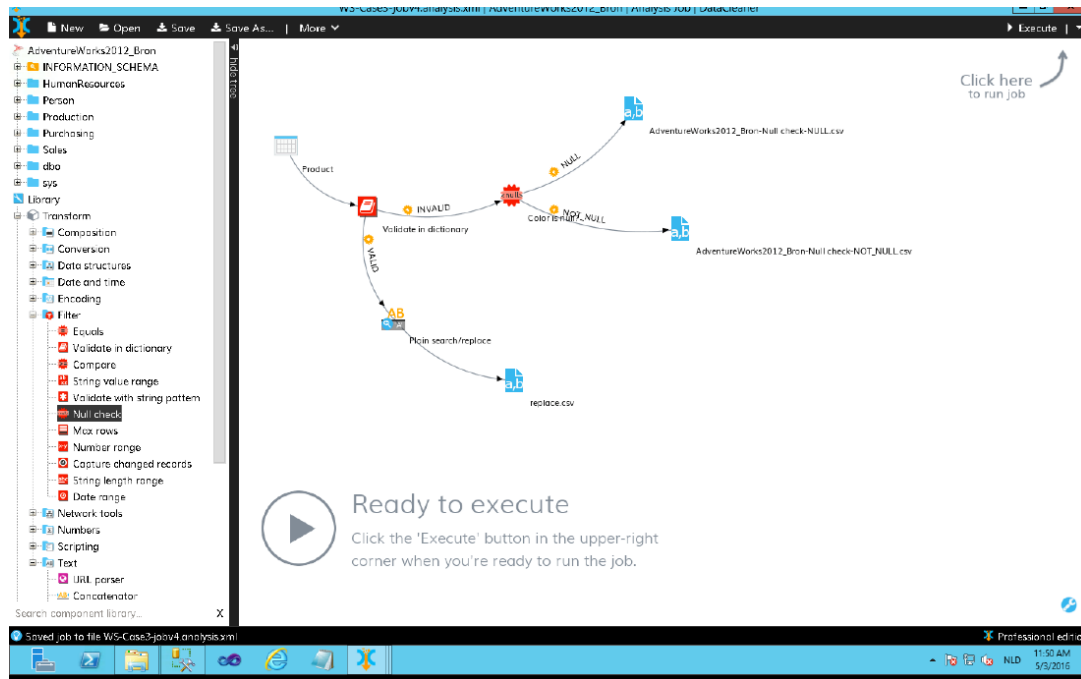
The screenshot shows the SQL Server Enterprise Manager interface. The left pane displays the Object Explorer with the AdventureWorks2012 database selected. The right pane shows a SQL query being executed. The query is a SELECT statement with a CASE WHEN clause for color validation. The results pane shows two rows of product data.

```

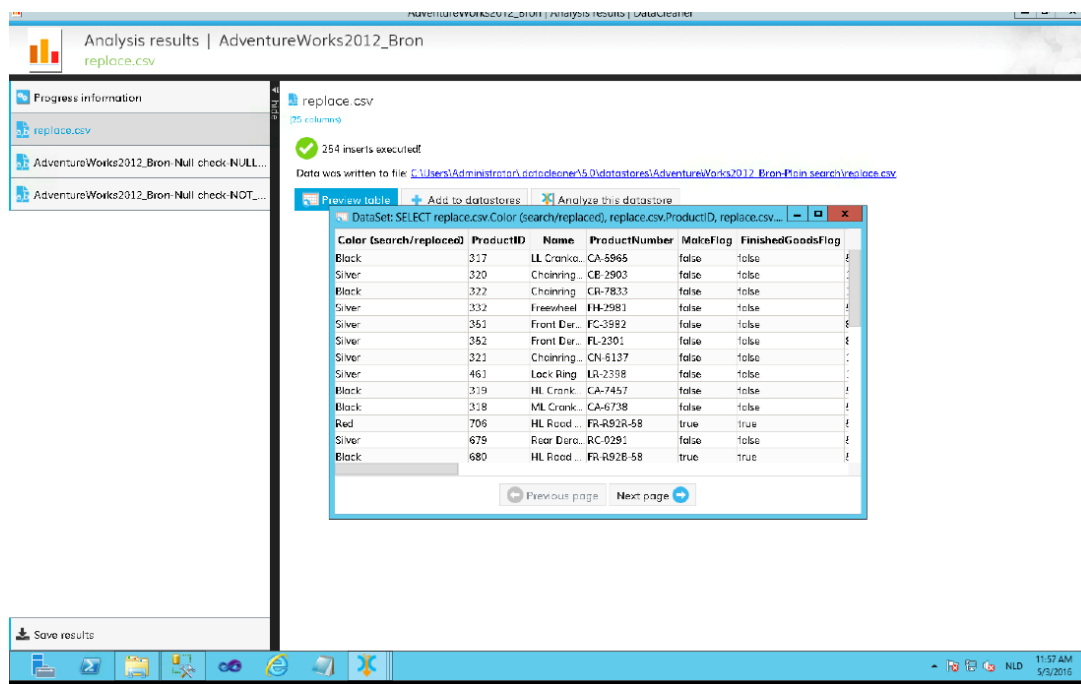
SELECT
  [ProductID],
  [Name],
  [ProductNumber],
  [MakeFlag],
  [FinishedGoodsFlag],
  Case when [Color] is null then null
  when [Color] = 'Zwart' then 'Black'
  when [Color] = 'Veel' then 'Multi'
  when [Color] = 'Rood' then 'Red'
  when [Color] = 'Wit' then 'White'
  when [Color] = 'Geel' then 'Yellow'
  else [Color] end as Color,
  [SafetyStockLevel],
  [ReorderPoint],
  [StandardCost],
  [ListPrice],
  [Size],
  [SizeUnitMeasureCode],
  [WeightUnitMeasureCode]

```

ProductID	Name	ProductNumber	MakeFlag	FinishedGoodsFlag	Color	SafetyStockLevel	ReorderPoint	StandardCost	ListPrice	Size	SizeUnitMea
965	Touring 3000 Yellow, 62	BK-118Y-62	1	1	Geel	100	75	461.4448	742.35	62	CM
973	Road 350 W Yellow, 40	BK-R73Y-40	1	1	Geel	100	75	1082.51	1700.99	40	CM



NB: De export naar CSV-file werkt goed, de export naar Excel vertoont bugs.



Color (Search/replaced)	ProductID	Name	ProductNumber	MakeFlag	FinishedGoodsFlag
Black	317	LL Crank...	CA-5965	false	false
Silver	320	Chainring...	CB-2903	false	false
Black	322	Chainring...	CB-7833	false	false
Silver	332	Freewheel	HH-2981	false	false
Silver	351	Front Der...	FC-3582	false	false
Silver	352	Front Der...	FL-2301	false	false
Silver	321	Chainring...	CN-6137	false	false
Silver	461	Lock Ring	LR-2338	false	false
Black	319	HL Crank...	CA-7457	false	false
Black	318	ML Crank...	CA-6738	false	false
Red	706	HL Road...	FR-R52R-58	true	true
Silver	679	Rear Der...	RC-0291	false	false
Black	680	HL Road...	FR-R52B-58	true	true

<254 inserts –alle transformaties van geldige kleuren-->

Analysis results | AdventureWorks2012_Bron
AdventureWorks2012_Bron-Null check-NULL...

Progress information

- replace.csv
- AdventureWorks2012_Bron-Null check-NULL...
- AdventureWorks2012_Bron-Null check-NOT...

AdventureWorks2012_Bron-Null check-NULL.csv
(25 columns) (Color is null=488.1)

248 inserts executed!

Data was written to file: C:\Users\Administrator\Documents\datastore\AdventureWorks2012_Bron-Null check-NULL.csv

DataSet: SELECT AdventureWorks2012_Bron-Null check-NULL.csv.ProductID, Adventure...

ProductID	Name	ProductNumber	MakeFlag	FinishedGoodsFlag	Color	SafetyStockLe
1	Adjustabl...	AR-5381	false	false		1000
2	Bearing B...	BA-8327	false	false		1000
3	BB Ball B...	BE-2349	true	false		800
4	Headset ...	EE-2908	false	false		800
316	Bicade ...	BL-2036	true	false		800
323	Crown Ra...	CR-5981	false	false		1000
324	Chain Sta...	CS-2812	true	false		1000
325	Decal 1 ...	DC-8732	false	false		1000
326	Decal 2 ...	DC-9824	false	false		1000
327	Down Tube	DT-2377	true	false		800
328	Mountain ...	EC-M092	true	false		1000
330	Touring E...	EC-T209	true	false		1000
329	Road End ...	EC-R098	true	false		1000

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Save results

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<248 inserts -null values-->

Analysis results | AdventureWorks2012_Bron
AdventureWorks2012_Bron-Null check-NOT...

Progress information

- replace.csv
- AdventureWorks2012_Bron-Null check-NULL...
- AdventureWorks2012_Bron-Null check-NOT...

AdventureWorks2012_Bron-Null check-NOT_NULL.csv
(25 columns) (Color is null=NOT_NULL)

2 inserts executed!

Data was written to file: C:\Users\Administrator\Documents\datastore\AdventureWorks2012_Bron-Null check-NOT_NULL.csv

Preview table Add to datastores Analyze this datastore

DataSet: SELECT AdventureWorks2012_Bron-Null check-NOT_NULL.csv.ProductID, Adv...

ProductID	Name	ProductNumber	MakeFlag	FinishedGoodsFlag	Color	SafetyStockLevel
965	Touring 3...	EK-T18Y-62	true	true	Gelb	100
973	Road-350 ...	EK-R79Y-40	true	true	Gelb	100

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Save results

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<2 inserts -Gelb komt niet voor in dictionary-->

