Data story VOC

June 30, 2021

0.0.1 The life of Hendrik Prins



The Vereenigde Oostindische (VOC) was one of the largest employers in the 1700-1800s. Naturally, a sizable portion of the Dutch Republics' population was employed by the VOC. This phenomenon does not only sparks the interest of historians but also of other enthusiasts, especially if a forefather was known to be employed by the VOC. We have such a case with a personal relation of mine, the Prins family. By their research, they know that their forefather was named Hendrik Prins, and he had his origins in Delft. Interestingly enough, they still have the VOC emblem of Hendrik.

In this short data story, we will look into the life of Hendrik Prins. We start by just knowing his name and birthplace and use the VOC knowledge graph to explore related voyages, goods, and events during the life of Hendrik Prins.

Data story by Stijn Schouten, written on 26-06-2021 Composed using JupyterLab, using the SPARQL-Wrapper to access the GraphDB endpoint.

Finding Hendrik Prins In the query below, we select all the persons who originated from Delft NL and filter out the Hendrik Prins name.

```
[31]: sparql.setQuery(prefixes+"""
SELECT ?person ?name ?from
WHERE
{
```

```
?person histsocP:P24 <a href="http://example.com/place/vocUniquePlaceID_1192">http://example.com/place/vocUniquePlaceID_1192</a> crm:P1 ?from.
?person dfhc:P8 ?name.
filter contains(?name, "Hendrik Prins")
} """)
```

```
person name from

0 person/1042325 Hendrik Prins appellation/Delft_NL

1 person/1087798 Hendrik Prins appellation/Delft_NL
```

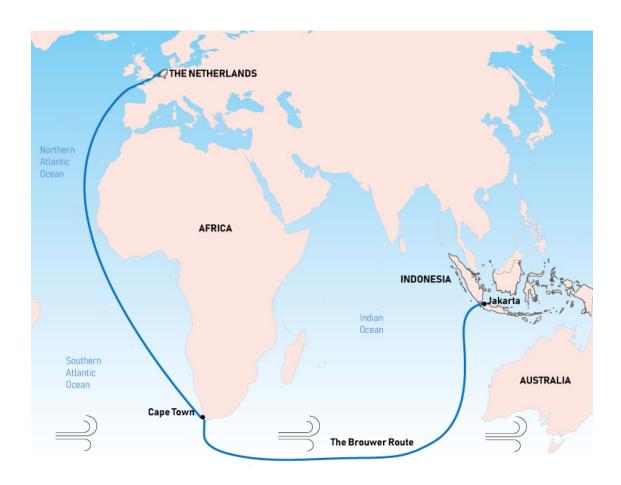
We find that there are two records with the name Hendrik Prins who originated from Delft. We can take a closer into these persons by retrieving more information.

	participation	person	timespan	reasonend
0	participation/94248-1042325	person/1042325	appellation/1741-03-29_1743-07-20	endofexistence/Repatriated
1	participation/94327-1042325	person/1042325	appellation/1743-11-27_1745-08-24	endofexistence/Repatriated
2	participation/94412-1042325	person/1042325	appellation/1745-11-11_1746-06-10	endofexistence/Last_record
3	participation/94678-1087798	person/1087798	appellation/1754-03-06_1758-08-19	endofexistence/Deceased

There are four participations linked to the two records. The Hendrik Prins with identifier 1042325 starts his career in 1741 and continues enlisting three times with his last entry in 1746. The Hendrik Prins with identifier 1087798 starts his career in 1754, and it is a short-lived career as his contract ends due to him perishing on his first voyage.

There is a possibility that the first Hendrik Prins could be the same as the second. There is a gap of 8 years between the last enlisting and the enlisting of the second Hendrik Prins. This gap could exist due to missing records or other reasons. The reason for the ending of the first Hendrik Prins does not give a final answer. The last record category is because of reasons unknown.

The three participations of the first Hendrik Prins entry involved the same route. (screenshot) Like many others in that time, the route started from the Netherlands (Goeree) and sailed to Batavia (now Jakarta) via the Cape of Good hope. The precise route is unknown, but looking at the time-frame, there is a good chance the faster Brouwer route is used. The route is illustrated.



Data analysis We can compare the voyages of Hendrik Prins with other similar voyages which have the same starting and ending place. If the departing and arrival dates are known, we can conclude if the voyage of Hendrik Prins was, by comparison, quicker.

```
[37]: firstlegs = []
secondlegs = []
for i in dfn.itertuples():
    if int(i[4][-1]) == 1:
```

```
delta
count 542.000000
       148.994465
mean
std
       102.697238
min
       71.000000
25%
       110.000000
50%
       127.000000
75%
       152.000000
max
       868.000000
            delta
count 481.000000
        81.446985
mean
        22.556822
std
min
        30.000000
25%
        67.000000
50%
        79.000000
75%
        90.000000
       287.000000
max
```

There are 542 first legs, from Goeree NL to the Cape of Good Hope SA registered. The mean delta (days traveled) is 148. There are exciting outliers, such as the max value of 868. Meaning a ship took around three years to complete the leg. From the Cape, 481 legs have registered that travel to Jakarta ID. The second leg is overall much shorter, with a mean of 81 days traveled. The outliers are much more confined as well, with a maximum value of 287.

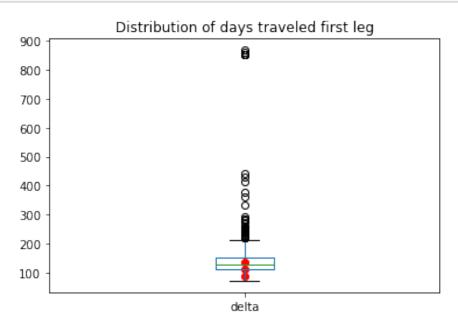
Hendrik Prins sailed three times on the voyages 94248, 94327, and 94412 in the outwards direction, from the Republic to the Dutch Indies. We can compare the delta (days traveled) with the other similar voyages in a boxplot. Note that the second leg misses an entry due to a missing arrival date (voyage 94327).

The voyages of Hendrik Prins were, overall, quicker than the mean.

```
[12]: plot = fldf[fldf.delta > 0].plot(kind='box', title="Distribution of days_

→traveled first leg")

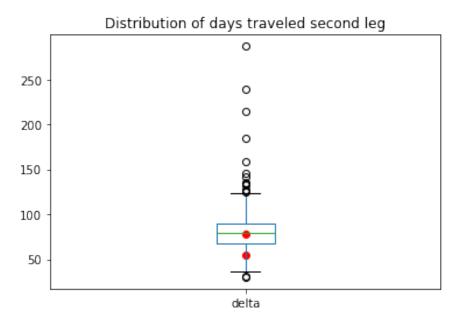
plot.scatter([1,1,1],[87,137,109], color='r')
```



```
[13]: plot = sldf[sldf.delta > 0].plot(kind='box', title= "Distribution of days_

→traveled second leg")

plot.scatter([1,1],[55,78], color='r')
```



Qualitative analysis In the previous section, the artifact is used in data analysis. However, the artifact is also widely deployable for qualitative research. For example, the property P1:Voy Particulars illustrates the highlights of a voyage in a couple of sentences. We can retrieve the related particulars of the Hendrik Prins voyages to discover unusual or interesting facts.

	particular	voyage
0	Pieter Jellesz, was schout-by-nacht of the return fleet. The 117 men aboard the TOLSDUIN included 90 seafarers.	voyage/98050
1	After an accident on a voyage to Ambon the DELFLAND was laid up on 12-07-1746.	voyage/94248
2	The TOLSDUIN called at Duins (17-12-1743 till 06-01-1744) where 11 seafarers and 4 soldiers were pressed by the English. During the voyage one soldier became seafarer.	voyage/94327
3	At the Cape a stowaway, found on the TOLSDUIN, embarked on the EENDRACHT, which set out to Batavia on 22-03-1745 (3309).	voyage/98101

Hendrik Prins sailed under the command on one of the schout-by-nacht' of the Replubic: Pieter Jelleszoon. Furthermore, they were pressed by the English at one point; it must have been thrilling. Finally, the crew of Prins found a stowaway when docked at the cape. Overall, an interesting life on board a VOC ship.

The Wind in our sails project does not only cover the moments of ships and their participants. It also features a connection with the bookkeeper's logs. Information about cargo shipped on the voyages is stored. With a query, we can retrieve the goods that were shipped on the voyages of Hendrik Prins.

typename	voyage	direction
nootmuskaat	98050	Return
indigo	98050	Return
kleed	98050	Return
gingam	98050	Return
baftas	98050	Return
salempuris	98050	Return
muris	98050	Return
guinees	98050	Return
bethilles	98050	Return
ongelden	98050	Return
garen	98050	Return
ebbenhout	98050	Return
terindani	98050	Return
bherms	98050	Return
carroots	98050	Return
niquanias	98050	Return
zijde	98050	Return
peper	98050	Return
thee	98050	Return
chauter	98050	Return
koffieboon	98050	Return
borax	98050	Return
cauri	98050	Return
salpeter	98050	Return
garioffelnagel	98050	Return
foelie	98050	Return
photas	98050	Return
benzo	98050	Return
tansjeebs	98050	Return
sapanhout	98050	Return
gomlak	98050	Return
kurkuma	98050	Return
zeildoek	98050	Return
malmal	98050	Return
neusdoek	98050	Return
sits	98050	Return
douriassen	98050	Return
dongris	98050	Return
amirtje	98050	Return
armozijn	98050	Return
scheepsklederen	98050	Return
boek	98050	Return
samen	98050	Return
schrijfgereedschap	98050	Return
tinwerk	98050	Return
- IIII	70000	Retuin

linnen	98050	Return
boter	98050	Return
tafelmes	98050	Return
jucht	98050	Return
salmiak	98050	Return
aluin	98050	Return
verf	98050	Return
ijzer	94248	Outbound
spijker	94248	Outbound
kleinigheden	94248	Outbound
gereedschap	94248	Outbound
samen	94248	Outbound
over_te_veel_berekend_in_de_factuur	94248	Outbound
provisie	94248	Outbound
platlood	94248	Outbound
ambachtsgereedschap	94248	Outbound
fluweel	94248	Outbound
equipagegoederen	94248	Outbound
wapenkamergoederen	94248	Outbound
artilleriegoederen	94248	Outbound
zilver	94248	Outbound
dukatons	94248	Outbound
scheepsklederen	94248	Outbound
tarwe	94248	Outbound

In the table above, the goods shipped on the voyages of Hendrik Prins are listed. In the outward voyages, goods for trading were brought along, such as velvet or silver. On the return voyage, the goods shipped were more diverse. From nutmeg to salmiak, the spices and goods flowed rich.

Career and conclusion There is no guarantee that the second Hendrik Prins from Delft is the same person as the first one. Overall, between the third and fourth contract, there is a gap of over eight years. We might check two things if we want to determine if the two entries are the same person. First, we can check if the debt letters of the entries refer to the same person. Second, we might check the career path of the participants to determine if there is a logical connection.

Empty DataFrame
Columns: []
Index: []

Unfortunately, both entries do not have a debt letter relation. Thus that trail ends here. The other trail, one of the careers, we can still follow. In the query below, the rank performed during the voyages is displayed.

```
[46]: sparql.setQuery(prefixes +"""
    SELECT ?person ?rank
    WHERE {
    ?person histsocP:P24 < http://example.com/place/vocUniquePlaceID_1192>.
    <http://example.com/place/vocUniquePlaceID_1192> crm:P1 ?from.
    ?person dfhc:P8 ?name.
        ?participation histsocP:P10 ?person.
        ?participation histsocP:P12 ?rank.
    filter contains(?name,"Hendrik Prins")
    }
    """")
```

```
person rank
0 person/1042325 rank/sailor
1 person/1042325 rank/ship_gunner
2 person/1087798 rank/senior_weapons_master
```

The rank trail does yield some knowledge. Hendrik Prins started as a sailor, the base rank on a ship. He then moved to a more experienced role, the ship gunner. The ship gunner is still a

sailor but also bears the responsibility of firing the canon in times of turmoil. The second entry of Hendrik Prins bears the role of senior weapons master (or Opperkonstabel in Dutch.) The weapons master is responsible for the weapons on board the ship. A rank that is not easily reached without experience. Thus, there is a good chance, due to missing records, Hendrik Prins had a career from sailor to the senior weapons master in his later years.

The life of Hendrik Prins came to an end during voyage 94678. There is no reason stated, but the life on board of a ship could be harsh. During this particular voyage, seven other seafarers, six soldiers, and one craftsman perished. The table can be viewed below.

Part of the voyage	Measurement	Number	Unit
94678	Passengers-94678	0	count_dying
94678	Seafarers-94678	8	count_dying
94678	Soldiers-94678	6	count_dying
94678	Craftsmen-94678	1	count_dying