

Querying and selection data

Matteo Mazzucato



OIE Collaborating Centre for epidemiology, training and control of emerging avian diseases



OIE Headquarters



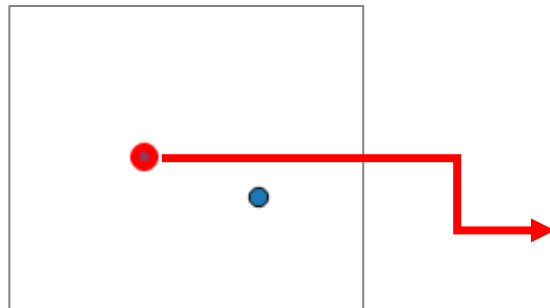
Overview

- Identifying data
- Finding data
- Selecting feature by attribute
- Query data by attribute

Identifying data

Show information about a layer (all fields)

Identify features



Identify Results

Feature	Value
Industrial_Farms	
Code	064VR2297
(Derived)	
(clicked coordinate X)	11.25728
(clicked coordinate Y)	45.33059
X	11.25709
Y	45.33051
feature id	1106
(Actions)	
Code	064VR2297
SPECIES	CHICKENS
PRODUCTION	BROILERS
BACKYARD	0
N_ANIMALS	100000.000000000000
OWNER	AIA
DATE_START	1993-01-15
DATE_END	

Mode: Layer selection

View: Tree

Auto open form

Help

Finding data

Create a list of elements based on a specific expression

Select a layer > Right click > Open attribute table

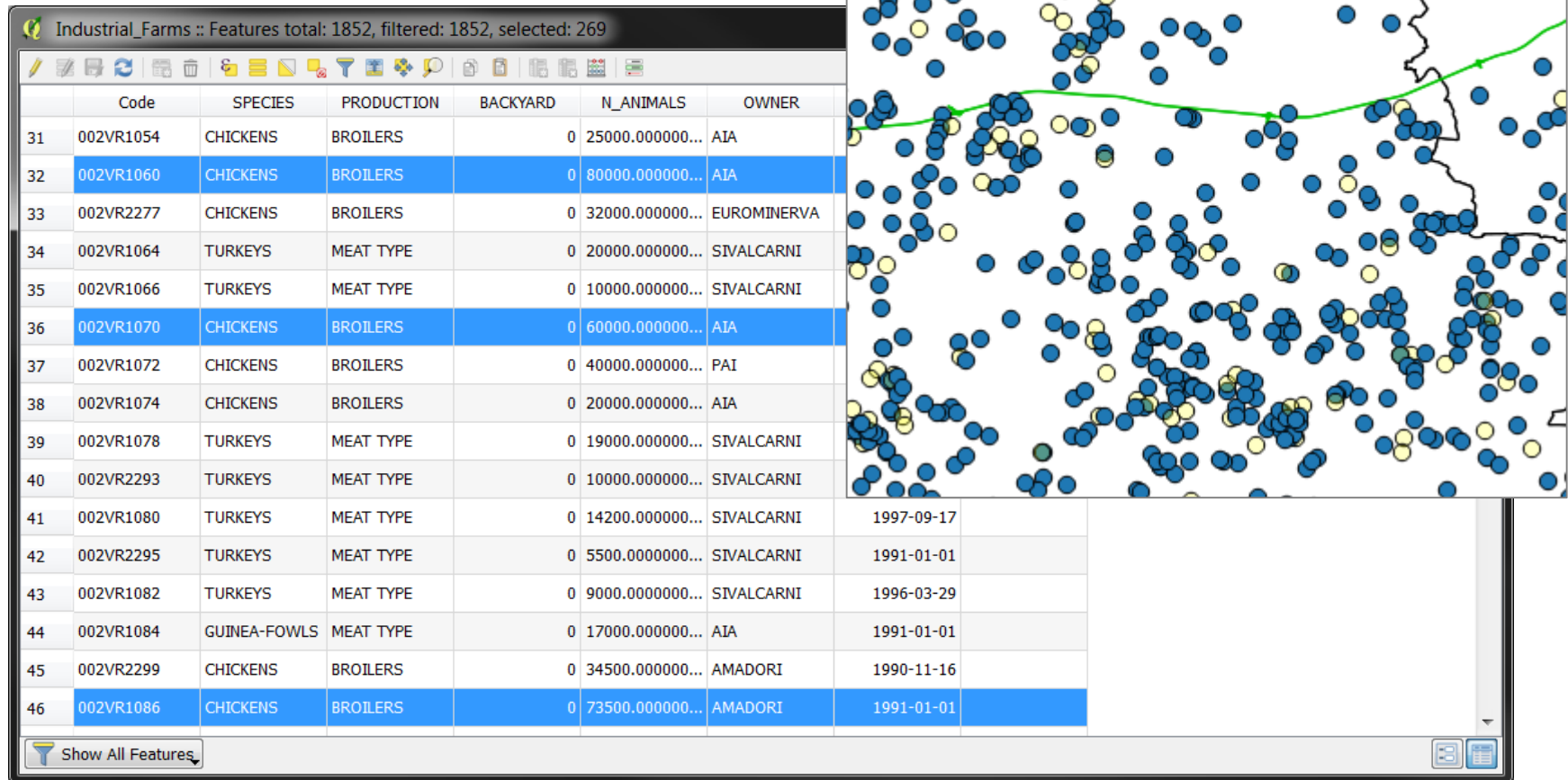
- **Field filter**
- **Advanced filter** (expression)

-
- Filters elements on the table
 - Nothing happens on the map
 - Doesn't create a subset

Selecting feature by attribute

Select a list of elements based on a a specific expression

Select a layer > **Select by expression**



	Code	SPECIES	PRODUCTION	BACKYARD	N_ANIMALS	OWNER	
31	002VR1054	CHICKENS	BROILERS	0	25000.000000...	AIA	
32	002VR1060	CHICKENS	BROILERS	0	80000.000000...	AIA	
33	002VR2277	CHICKENS	BROILERS	0	32000.000000...	EUROMINERVA	
34	002VR1064	TURKEYS	MEAT TYPE	0	20000.000000...	SIVALCARNI	
35	002VR1066	TURKEYS	MEAT TYPE	0	10000.000000...	SIVALCARNI	
36	002VR1070	CHICKENS	BROILERS	0	60000.000000...	AIA	
37	002VR1072	CHICKENS	BROILERS	0	40000.000000...	PAI	
38	002VR1074	CHICKENS	BROILERS	0	20000.000000...	AIA	
39	002VR1078	TURKEYS	MEAT TYPE	0	19000.000000...	SIVALCARNI	
40	002VR2293	TURKEYS	MEAT TYPE	0	10000.000000...	SIVALCARNI	
41	002VR1080	TURKEYS	MEAT TYPE	0	14200.000000...	SIVALCARNI	1997-09-17
42	002VR2295	TURKEYS	MEAT TYPE	0	5500.000000...	SIVALCARNI	1991-01-01
43	002VR1082	TURKEYS	MEAT TYPE	0	9000.000000...	SIVALCARNI	1996-03-29
44	002VR1084	GUINEA-FOWLS	MEAT TYPE	0	17000.000000...	AIA	1991-01-01
45	002VR2299	CHICKENS	BROILERS	0	34500.000000...	AMADORI	1990-11-16
46	002VR1086	CHICKENS	BROILERS	0	73500.000000...	AMADORI	1991-01-01

Selecting feature by attribute

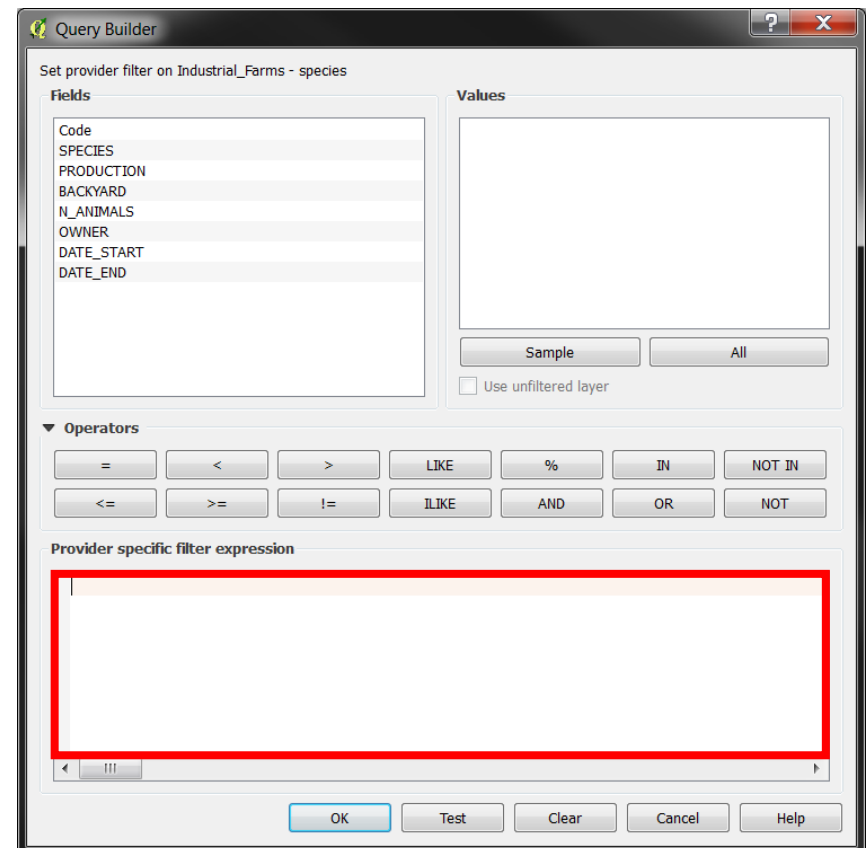
- Selects elements on the table
- Selects elements on the map
- Doesn't create a subset
- Selection is temporary

Querying feature by attribute

Query data by attribute using SQL command

Select a layer > Right click > **Filter**

```
Select      *  
From        <selected layer>  
Where       <conditions>
```



Querying feature by attribute

- Create a subset
- All functionalities and tool interact only with the subset

What happen on the styled layers?

- Only styled elements are displayed on the map
- Nothing happens on the table
- Doesn't create a subset
- Identify tool is available for all elements (even not displayed)
- Selection tool is available only on displayed elements

Practical exercise (4.3)

4_3_ex_query.docx

- Use *identify tool* to view information about a feature
- Find features in a layer with a specific attribute values
- Select features in a layer with a specific attribute values
- Filter data with queries