

# SQL vragen 1

De laatste 3 vragen zijn uitdagers. Neem SQL lessen 3 en 4 door om ze te maken

1: Hoeveel counties heeft de database diversity?

```
count
-----
SELECT COUNT(*) FROM county ;

67
(1 row)
```

2: Hoeveel sightings hebben helaas geen datum?

```
count
-----
SELECT COUNT(*) FROM sightings
WHERE year IS NULL;

3866
(1 row)
```

3: Laat de eerste 15 subtax rijen zien

```
subtax_name | tax_name
-----+-----
Frogs and Toads | Amphibians
Salamanders | Amphibians
Animal Assemblages | Animal Assemblages
Bees | Bees, Wasps, and Ants
Blackbirds and Orioles | Birds
Cardinals and Buntings | Birds
Chickadees and Titmice | Birds
Cormorants | Birds
Creepers | Birds
Crows and Jays | Birds
Cuckoos | Birds
Ducks, Geese, Waterfowl | Birds
Finches and Crossbills | Birds
Flycatchers | Birds
Gnatcatchers | Birds
(15 rows)

SELECT subtax_name, tax_name FROM subtax
LIMIT 15;
```

4: Hoeveel zeeschildpadden komen in de database voor?

```
count
-----
      20
(1 row)
```

5: Welke subtaxen hebben als status alle mogelijke “Game with open season”?

```
subtax_name
-----
Grouse, Pheasants, Turkeys
Herrings and Shad
Carnivores
Darters and Sunfishes
Turtles
Frogs and Toads
Rails, Coots and Cranes
Ducks, Geese, Waterfowl
Crows and Jays
Gulls, Terns, Plovers, Shorebirds
(10 rows)
```

SELECT DISTINCT subtax\_name FROM biological\_entity  
WHERE description LIKE '%Game with open season';

6: Wat is het oudst geregistreerde sighting? Je mag in de query geen getal gebruiken. Hernoem de kolom naar oud

```
oud
-----
1800
(1 row)
```

SELECT year AS oud FROM sightings  
ORDER BY year ASC  
LIMIT 1;

SELECT MIN(year) AS oud FROM sightings ;

7: Hoeveel dieren zijn er in 2001 gespot?

```
count
-----
    142
(1 row)
```

SELECT COUNT(\*) FROM sightings  
WHERE year = '2001';

8: Hoeveel biological\_entiy records hebben de status “Rare”? Hernoem de kolom naar Rare Status ?

Rare Status
83

(1 row)

9: Geef het aantal descriptions met de bijbehorende subtax waar het totaal aantal description van elk subtax\_name > 100.

count	subtax_name
121	Sedges
374	Other Flowering Plants

(2 rows)

10: Wat is het aantal sighting voor elk county die als 2e letter een “e” heeft? Sorteer de teruggegeven tabel op aantal

county_name	Aantal
New York	151
Delaware	261
Seneca	280
Herkimer	307
Lewis	320
Genesee	324
Rensselaer	345
Jefferson	418
Westchester	438

(9 rows)

11: Wat is het aantal sightings in de counties, die een “l” in hun naam hebben?

county_name	Aantal	
Columbia	330	
Cortland	237	
Franklin	320	
Sullivan	286	
Fulton	218	SELECT county_name, COUNT(*) AS Aantal
Atlantic Ocean and Long Island Sound	18	FROM sightings
Rensselaer	345	WHERE county_name LIKE '%l%'
Delaware	261	
Suffolk	700	
Rockland	355	
Orleans	223	
Ulster	443	
Clinton	364	
Hamilton	295	
Allegany	235	
not listed	3	
Albany	395	
Schuyler	243	

(18 rows)

12: Welke countys hebben in totaal 9 signalementen? Hier mag geen gebruik gemaakt worden van de woorden: Lake; Open en Waters

county_name	
Lake Ontario Open Waters	SELECT county_name FROM sightings
Lake Erie Open Waters	GROUP BY county_name
	HAVING COUNT(county_name) = 9;

(2 rows)

13: Welke records zijn er aanwezig in het tabel status. Geef de records omgekeerd gesorteerd weer.

description	
-----	
Threatened	SELECT DISTINCT description FROM biological_entity ORDER BY description DESC;
Special Concern	
Rare	
Protected - no open season	
Protected Bird - Game with open season	
Protected Bird	
not listed	
not applicable	
Game with open season	
Game with no open season	
Endangered	
(11 rows)	

14: Welke records in de subtax tabel hebben kevers als hun taxonomie?

subtax_name	tax_name	
-----+-----		
Tiger Beetles	Beetles	SELECT subtax_name, tax_name FROM subtax WHERE tax_name IN ('Beetles');
Carrion Beetles	Beetles	
Lady Beetles	Beetles	
Rove Beetles	Beetles	
Diving Beetles	Beetles	
(5 rows)		

15: Welke records zijn er aanwezig in het tabel taxonomy. Geef de records gesorteerd weer.

tax_name	
Amphibians	
Animal Assemblages	
Bees, Wasps, and Ants	
Beetles	
Birds	
Butterflies and Moths	
Conifers	
Crustaceans	
Dragonflies and Damselflies	
Ferns and Fern Allies	
Fish	SELECT DISTINCT tax_name from subtax
Flowering Plants	ORDER BY tax_name;
Freshwater Nontidal Wetlands	
Lakes and Ponds	
Mammals	
Marine	
Mayflies	
Mosses	
Mussels and Clams	
not listed	
Reptiles	
Rivers and Streams	
Snails	
Subterranean	
Tidal Wetlands	
Uplands	
(26 rows)	

16: In hoeveel counties is een vleermuis gesignaleerd? Hernoem de kolom naar aantal\_vleermuizen.

aantal_vleermuizen	
217	SELECT COUNT(county_name) AS aantal_vleermuizen
	FROM sightings, biological_entity
	WHERE (common_name LIKE '%Bat%' AND
	sightings.scientific_name = biological_entity.scientific_name);
(1 row)	

17: Welke records van biological\_entity hebben kevers als tax\_name?

scientific_name	common_name	subtax_name	description
Cicindela ancocisconensis	Appalachian Tiger Beetle	Tiger Beetles	not listed
Cicindela marginipennis	Cobblestone Tiger Beetle	Tiger Beetles	not listed
Nicrophorus americanus	American Burying Beetle	Carrion Beetles	Endangered
Cicindela hirticollis	Hairy-necked Tiger Beetle	Tiger Beetles	not listed
Adalia bipunctata	Two-spotted Lady Beetle	Lady Beetles	not listed
Coccinella trifasciata	Three-banded Lady Beetle	Lady Beetles	not listed
Cicindela dorsalis dorsalis	Northeastern Beach Tiger Beetle	Tiger Beetles	Threatened
Coccinella novemnotata	Nine-spotted Lady Beetle	Lady Beetles	not listed
Lordithon niger	Black Lordithon Rove Beetle	Rove Beetles	not listed
Cicindela abdominalis	Eastern Pinebarrens Tiger Beetle	Tiger Beetles	not listed
Cicindela patruela consentanea	New Jersey Pine Barrens Tiger Beetle	Tiger Beetles	not listed
Hygrotus sylvanus	Sylvan Hygrotus Diving Beetle	Diving Beetles	not listed
Cicindela patruela patruela	Northern Barrens Tiger Beetle	Tiger Beetles	not listed

(13 rows)

18: Wat is de status van de taxonomie groep slakken. Geef alleen de gewone naam en de status weer.

common_name	description
Lance Aplexa	not listed
Mossy Valvata	Special Concern
Watercress Snail	not listed
Chittenango Ovate Amber Snail	Endangered

(4 rows)

```
SELECT common_name, description FROM biological_entity, subtax
WHERE (subtax.subtax_name LIKE '%Snails%' AND
biological_entity.subtax_name=subtax.subtax_name);
```