

## **Title**

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|----------------|------------------------------------|--|--|
| Student Number | 5298191                            |  |  |
| Course         | Database Concepts and Applications |  |  |
| Session        |                                    |  |  |
| Teacher        |                                    |  |  |
| Date           | 2022-09-05                         |  |  |

## 1. List all the dogs and male turtles.

SELECT species, sex FROM animals

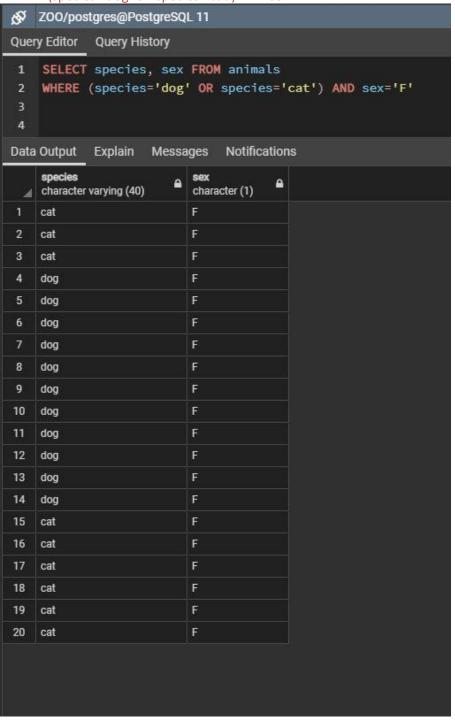
WHERE species='dog' OR (species='turtle' AND sex='M')

| H - 655          | ZOO/postgres@PostgreSQ                     | ecies= turtie AND sex= M )            |
|------------------|--------------------------------------------|---------------------------------------|
|                  | y Editor Query History                     |                                       |
| 1<br>2<br>3<br>4 | SELECT species, sex<br>WHERE species='dog' | OR (species='turtle' AND sex='M')     |
|                  | species character varying (40)             | ages Notifications  sex character (1) |
| ⊿<br>1           | dog                                        | M                                     |
| 2                | turtle                                     | M                                     |
| 3                | dog                                        | F                                     |
| 4                | dog                                        | M                                     |
| 5                | dog                                        | F                                     |
| 6                | dog                                        | F                                     |
| 7                | dog                                        | F                                     |
| 8                | dog                                        | F                                     |
| 9                | dog                                        | F                                     |
| 10               | dog                                        | F                                     |
| 11               | dog                                        | F                                     |
| 12               | dog                                        | F                                     |
| 13               | dog                                        | F                                     |
| 14               | dog                                        | М                                     |
| 15               | dog                                        | F                                     |
| 16               | dog                                        | М                                     |
| 17               | dog                                        | М                                     |
| 18               | dog                                        | М                                     |
| 19               | dog                                        | М                                     |
| 20               | dog                                        | M                                     |
| 21               | dog                                        | М                                     |
| 22               | turtle                                     | M                                     |
| 23               | turtle                                     | M                                     |
| 24               | turtle                                     | M                                     |
|                  |                                            |                                       |

#### 2. List all the female cats and female dogs.

SELECT species, sex FROM animals

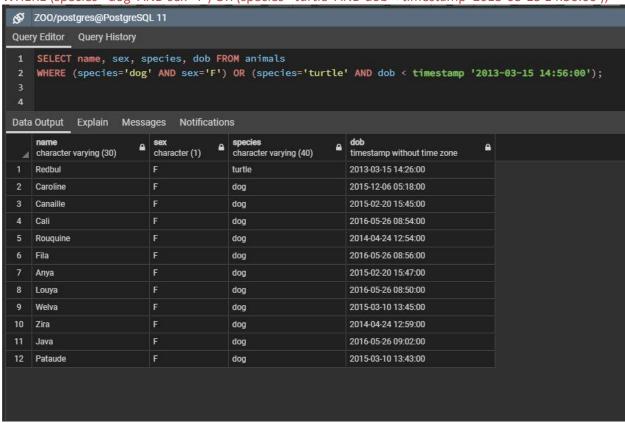
WHERE (species='dog' OR species='cat') AND sex='F'



#### 3. List all the female dogs and the oldest turtle (name, sex, specie, dob).

SELECT name, sex, species, dob FROM animals

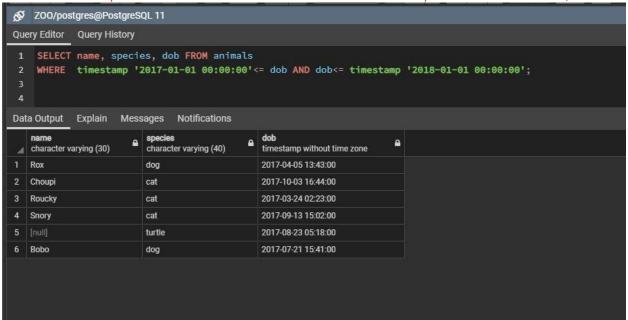
WHERE (species='dog' AND sex='F') OR (species='turtle' AND dob < timestamp '2013-03-15 14:56:00');



#### 4. List the animals born in 2007 (specie, name and date of birth).

SELECT name, species, dob FROM animals

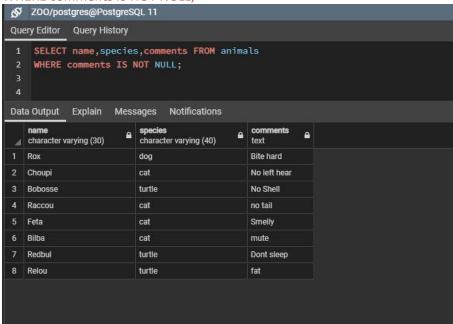
WHERE timestamp '2017-01-01 00:00:00'<= dob AND dob<= timestamp '2018-01-01 00:00:00';



#### 5. List the animals with any comments attached to their name (name, specie, comments).

SELECT name, species, comments FROM animals

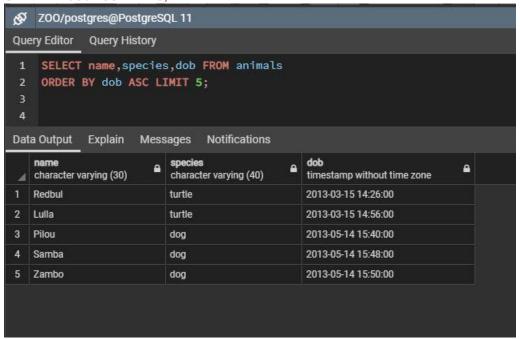
WHERE comments IS NOT NULL;



#### 6. List the 5 oldest animals (name, specie, date of birth).

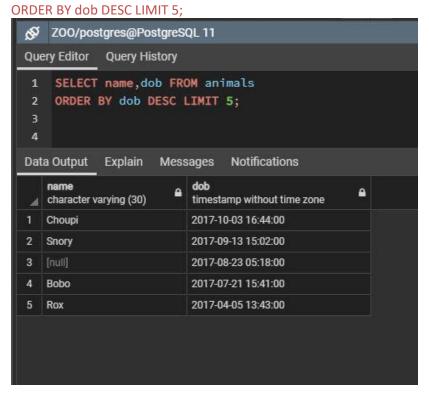
SELECT name, species, dob FROM animals

ORDER BY dob ASC LIMIT 5;



#### 7. List the 5 youngest animals (name, dob).

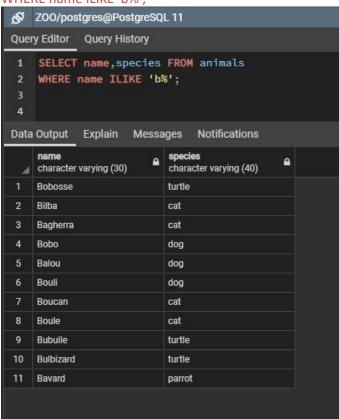
SELECT name, dob FROM animals



#### 8. List all the animals who's name starts with 'b'.

SELECT name, species FROM animals

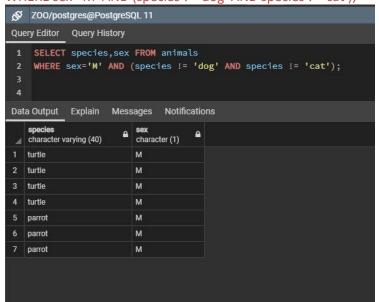
WHERE name ILIKE 'b%';



#### 9. List all the males except for the dogs and the cats.

**SELECT species, sex FROM animals** 

WHERE sex='M' AND (species != 'dog' AND species != 'cat');



#### 10. List all the female cats born between 2007 and 2009.

SELECT species, sex, dob FROM animals

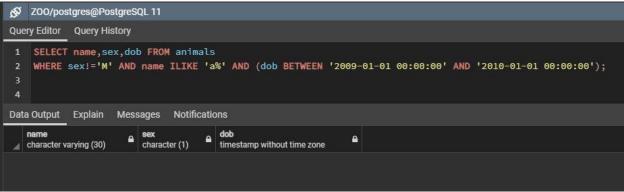
WHERE sex='F' AND species = 'cat' AND (dob BETWEEN '2007-01-01 00:00:00' AND '2008-01-01 00:00:00');



#### 11. List all the animals who's name ends with a and was born in 2009 and who's not a male.

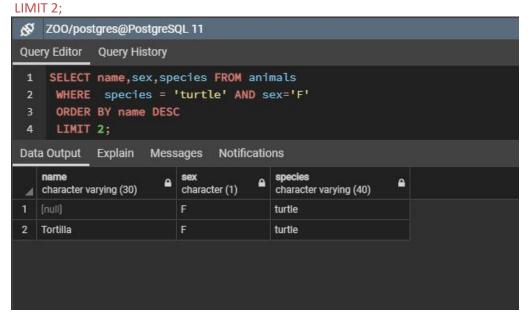
SELECT name, sex, dob FROM animals

WHERE sex!='M' AND name ILIKE 'a%' AND (dob BETWEEN '2009-01-01 00:00:00' AND '2010-01-01 00:00:00');



#### 12. List of 2 female turtles sort their name from z-a.

SELECT name, sex, species FROM animals WHERE species = 'turtle' AND sex='F' ORDER BY name DESC

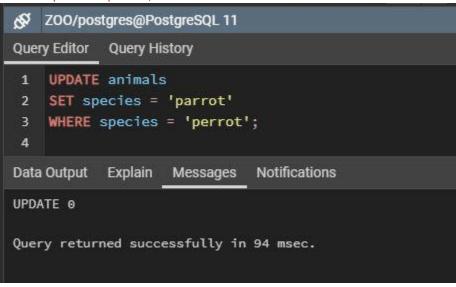


#### 13. Update all the "perrot" to "parrot".

**UPDATE** animals

SET species = 'parrot'

WHERE species = 'perrot';



# 14. List of the animal called 'Bouli', parrot with comments and all the female born before 2008 (name, sex).

SELECT name, species, sex, dob, comments FROM animals

WHERE name ='Bouli' OR (species='parrot' AND comments IS NOT NULL) OR (sex='F' AND dob < timestamp '2015-01-01 00:00:00');

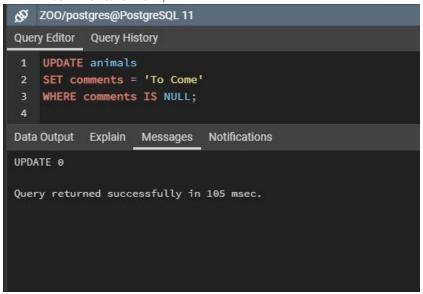
| CI     |                             | ,sex,dob,comments FRC<br>OR (species='parrot |                   | s IS NOT NULL) OR (sex='F'         | AND dob < timestamp '2015-01-01 00:00: | 00' |
|--------|-----------------------------|----------------------------------------------|-------------------|------------------------------------|----------------------------------------|-----|
| 3<br>4 |                             |                                              |                   |                                    |                                        |     |
| ata    | Output Explain Messa        | ages Notifications                           |                   |                                    |                                        |     |
| 4      | name character varying (30) | species character varying (40)               | sex character (1) | dob<br>timestamp without time zone | comments text                          |     |
|        | Feta                        | cat                                          | F                 | 2013-05-19 15:59:00                | Smelly                                 |     |
|        | Redbul                      | turtle                                       | F                 | 2013-03-15 14:26:00                | Dont sleep                             |     |
|        | Rouquine                    | dog                                          | F                 | 2014-04-24 12:54:00                | To Come                                |     |
| 4      | Zira                        | dog                                          | F                 | 2014-04-24 12:59:00                | To Come                                |     |
|        | Bouli                       | dog                                          | М                 | 2014-04-24 12:42:00                | To Come                                |     |
|        | Callune                     | cat                                          | F                 | 2013-05-19 16:06:00                | To Come                                |     |
|        | Milla                       | cat                                          | F                 | 2014-03-12 12:00:00                | To Come                                |     |
|        | Cracotte                    | cat                                          | F                 | 2014-03-12 11:54:00                | To Come                                |     |
|        | Cawette                     | cat                                          | F                 | 2013-05-19 16:16:00                | To Come                                |     |
| 10     | Nikkita                     | turtle                                       | F                 | 2014-04-01 18:17:00                | To Come                                |     |
| 11     | Lulla                       | turtle                                       | F                 | 2013-03-15 14:56:00                | To Come                                |     |
| 12     | Chicaca                     | turtle                                       | F                 | 2014-04-01 03:54:00                | To Come                                |     |
| 13     | Safran                      | parrot                                       | М                 | 2014-03-04 19:36:00                | To Come                                |     |
| 14     | Gingko                      | parrot                                       | м                 | 2015-02-20 02:50:00                | To Come                                |     |
| 15     | Bavard                      | parrot                                       | М                 | 2016-03-26 08:28:00                | To Come                                |     |
| 16     | Pariotte                    | parrot                                       | F                 | 2016-03-26 07:55:00                | To Come                                |     |

### 15. Change all the "NULL" comments to "To Come"!

**UPDATE** animals

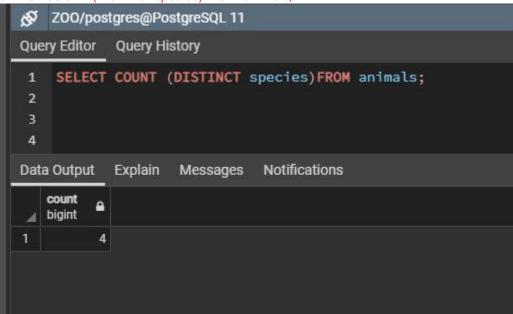
SET comments = 'To Come'

WHERE comments IS NULL;



## 16. How many species exist in total?

SELECT COUNT (DISTINCT species)FROM animals;



17. Surprise me with a cool query!