Title

Student(s)	Shabnam Rezaei
Student Number	5298191
Course	Database Concepts and Applications
Session	
Teacher	
Date	2022-10-05

1. STORE PROCEDURE: fetch_animal_parents

IN: animal id

Display if both parents exist -> show parent's name (both mom and dad)

Else if only one of the parent exist -> show their name

Else show -> No parents

```sql
CREATE PROCEDURE fetch_animal_parents1(IN a_id INT)

BEGIN

 DECLARE mother_name VARCHAR(50);

 DECLARE father_name VARCHAR(50);

 DECLARE child_name VARCHAR(50);

 DECLARE mother_id INT;

 DECLARE father_id INT;

    #get the animal info

   SELECT child.name ,father.name , mother.name  INTO child_name,
father_name, mother_name

   FROM animal child

   JOIN animal father ON father.id = child.father_id

   JOIN animal mother ON mother.id = child.mother_id

   WHERE child.id = a_id;

    #conditions

   IF mother_name IS NOT NULL AND father_name IS NOT NULL  THEN

   SELECT CONCAT_WS('|', mother_name,father_name) AS Result;
```

```sql
ELSEIF mother_name IS NOT NULL AND father_name IS  NULL  THEN

  SELECT mother_name AS MOTHER;

ELSEIF mother_name IS  NULL AND father_name IS  NOT NULL  THEN

  SELECT father_name AS FATHER;

ELSE

  SELECT CONCAT(child_name, "does not have any parents") AS Result;

END IF;

END;
```


Showing rows 0 - 0 (1 total, Query took 0.0017 seconds.)

CALL fetch_animal_parents1(10);

[Edit inline] [Edit] [Create PHP code]

Show all | Number of rows: 25 | Filter rows: Search this table

+ Options
Result
Caroline|Pataude

Show all | Number of rows: 25 | Filter rows: Search this table

Query results operations

Print   Copy to clipboard   Create view

2. STORE PROCEDURE: fetch_animal_group_of_age

IN: animal id

Display: Animal group of age

CASE: 'age'

1. 2006-2007 -> Group 1

2. 2007-2008 -> Group 2

3. 2008-2009 -> Group 3

4. 2009-2010 -> Group 4

5. 2010-2011 -> Group 5

6. 2011-2012 -> Group 6

7. 2012-2013 -> Group 7

8. 2014-2015 -> Group 8

9. 2015-2016 -> Group 9

10. 2016-2017 -> Group 10

11. 2017-2018 -> Group 11

```sql
1  CREATE PROCEDURE fetch_animal_group_of_age1(IN a_id INT)
2  BEGIN
3    DECLARE var_dob INT;
4    DECLARE var_name VARCHAR(50);
5
6      #get the animal info
7      SELECT name, YEAR(dob) INTO var_name,var_dob
8      FROM animal
9      WHERE id = a_id;
10
11
12     #conditions
13     CASE
14     WHEN var_dob >= 2006 AND var_dob<2007 THEN  SELECT 'group 1';
15     WHEN var_dob >= 2007 AND var_dob<2008 THEN  SELECT 'group 2';
16     WHEN var_dob >= 2008 AND var_dob<2009 THEN  SELECT 'group 3';
17     WHEN var_dob >= 2009 AND var_dob<2010 THEN  SELECT 'group 4';
18     WHEN var_dob >= 2010 AND var_dob<2011 THEN  SELECT 'group 5';
19     WHEN var_dob >= 2011 AND var_dob<2012 THEN  SELECT 'group 6';
20     WHEN var_dob >= 2012 AND var_dob<2013 THEN  SELECT 'group 7';
21     WHEN var_dob >= 2014 AND var_dob<2015 THEN  SELECT 'group 8';
22     WHEN var_dob >= 2015 AND var_dob<2016 THEN  SELECT 'group 9';
23     WHEN var_dob >= 2016 AND var_dob<2017 THEN  SELECT 'group 10';
24     WHEN var_dob >= 2017 AND var_dob<2018 THEN  SELECT 'group 4';
25
26
27   END CASE;
28 END;
```

✔ Showing rows 0 - 0 (1 total, Query took 0.0148 seconds.)

CALL fetch_animal_group_of_age1(3);

[Edit inline] [Edit] [Create PHP code]

☐ Show all | Number of rows: 25 ▾   Filter rows: Search this table

+ Options

group 5

group 5

☐ Show all | Number of rows: 25 ▾   Filter rows: Search this table

Query results operations

🖨 Print   Copy to clipboard   Create view

3. Regular Query: Using an "If" statement in the select, display the following sentence for each animal based on their gender:

-*name of animal is a sexy Female (for females)

-*name of animal is a macho Male (for males)

-*name of animal gender is to be decided (for null)

```
1 SELECT name ,sex , IF(sex IS NULL , 'name of animal gender is to be decided' ,
2           IF ( sex='M', "name of animal is a macho Male"," name of animal is a macho feMale")) AS Result
3           FROM animal;
```

					name	sex	Result
☐	🖉 Edit	ᴣᵢ Copy	⊖ Delete	Rox		M	name of animal is a macho Male
☐	🖉 Edit	ᴣᵢ Copy	⊖ Delete	Roucky		NULL	name of animal gender is to be decided
☐	🖉 Edit	ᴣᵢ Copy	⊖ Delete	Snory		F	name of animal is a macho feMale
☐	🖉 Edit	ᴣᵢ Copy	⊖ Delete	NULL		F	name of animal is a macho feMale
☐	🖉 Edit	ᴣᵢ Copy	⊖ Delete	Choupi		NULL	name of animal gender is to be decided
☐	🖉 Edit	ᴣᵢ Copy	⊖ Delete	Bobosse		F	name of animal is a macho feMale
☐	🖉 Edit	ᴣᵢ Copy	⊖ Delete	Caroline		F	name of animal is a macho feMale
☐	🖉 Edit	ᴣᵢ Copy	⊖ Delete	Bagherra		M	name of animal is a macho Male
☐	🖉 Edit	ᴣᵢ Copy	⊖ Delete	NULL		NULL	name of animal gender is to be decided
☐	🖉 Edit	ᴣᵢ Copy	⊖ Delete	Bobo		M	name of animal is a macho Male
☐	🖉 Edit	ᴣᵢ Copy	⊖ Delete	Canaille		F	name of animal is a macho feMale
☐	🖉 Edit	ᴣᵢ Copy	⊖ Delete	Cali		F	name of animal is a macho feMale
☐	🖉 Edit	ᴣᵢ Copy	⊖ Delete	Rouquine		F	name of animal is a macho feMale
☐	🖉 Edit	ᴣᵢ Copy	⊖ Delete	Fila		F	name of animal is a macho feMale
☐	🖉 Edit	ᴣᵢ Copy	⊖ Delete	Anya		F	name of animal is a macho feMale
☐	🖉 Edit	ᴣᵢ Copy	⊖ Delete	Louya		F	name of animal is a macho feMale
☐	🖉 Edit	ᴣᵢ Copy	⊖ Delete	Welva		F	name of animal is a macho feMale
☐	🖉 Edit	ᴣᵢ Copy	⊖ Delete	Zira		F	name of animal is a macho feMale
☐	🖉 Edit	ᴣᵢ Copy	⊖ Delete	Java		F	name of animal is a macho feMale
☐	🖉 Edit	ᴣᵢ Copy	⊖ Delete	Balou		M	name of animal is a macho Male
☐	🖉 Edit	ᴣᵢ Copy	⊖ Delete	Pataude		F	name of animal is a macho feMale
☐	🖉 Edit	ᴣᵢ Copy	⊖ Delete	Bouli		M	name of animal is a macho Male
☐	🖉 Edit	ᴣᵢ Copy	⊖ Delete	Cartouche		M	name of animal is a macho Male
☐	🖉 Edit	ᴣᵢ Copy	⊖ Delete	Zambo		M	name of animal is a macho Male
☐	🖉 Edit	ᴣᵢ Copy	⊖ Delete	Samba		M	name of animal is a macho Male

4. 3. Regular Query: Using a "Case" statement in the select, display the following sentence for each animal based on their gender:

-*name of animal is a sexy Female (for females)

-*name of animal is a macho Male (for males)

-*name of animal gender is to be decided (for nulls)

```
1 SELECT name,
2 CASE sex WHEN sex = 'M'
3 THEN 'name of animal is a macho Male' WHEN sex = 'F'
4 THEN 'name of animal is a macho feMale' ELSE ' name of animal gender is to be decided'
5 END AS sex_descripti
6 FROM animal;
```

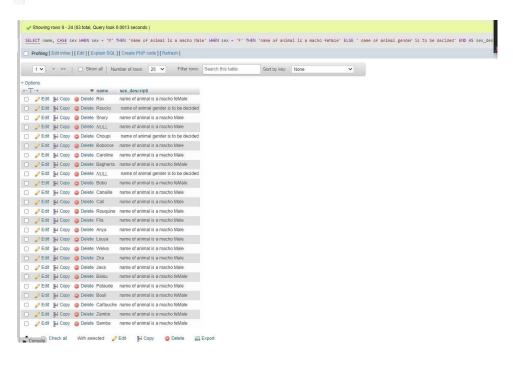✔ Showing rows 0 - 24 (63 total, Query took 0.0013 seconds.)

SELECT name, CASE sex WHEN sex = 'M' THEN 'name of animal is a macho Male' WHEN sex = 'F' THEN 'name of animal is a macho feMale' ELSE ' name of animal gender is to be decided' END AS sex_des

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

				name	sex_descripti
☐	🖉 Edit	🖳 Copy	🗑 Delete	Rox	name of animal is a macho feMale
☐	🖉 Edit	🖳 Copy	🗑 Delete	Roucky	name of animal gender is to be decided
☐	🖉 Edit	🖳 Copy	🗑 Delete	Snory	name of animal is a macho Male
☐	🖉 Edit	🖳 Copy	🗑 Delete	NULL	name of animal is a macho Male
☐	🖉 Edit	🖳 Copy	🗑 Delete	Choupi	name of animal gender is to be decided
☐	🖉 Edit	🖳 Copy	🗑 Delete	Bobosse	name of animal is a macho Male
☐	🖉 Edit	🖳 Copy	🗑 Delete	Caroline	name of animal is a macho Male
☐	🖉 Edit	🖳 Copy	🗑 Delete	Bagherra	name of animal is a macho feMale
☐	🖉 Edit	🖳 Copy	🗑 Delete	NULL	name of animal gender is to be decided
☐	🖉 Edit	🖳 Copy	🗑 Delete	Bobo	name of animal is a macho feMale
☐	🖉 Edit	🖳 Copy	🗑 Delete	Canaille	name of animal is a macho Male
☐	🖉 Edit	🖳 Copy	🗑 Delete	Cali	name of animal is a macho Male
☐	🖉 Edit	🖳 Copy	🗑 Delete	Rouquine	name of animal is a macho Male
☐	🖉 Edit	🖳 Copy	🗑 Delete	Fila	name of animal is a macho Male
☐	🖉 Edit	🖳 Copy	🗑 Delete	Anya	name of animal is a macho Male
☐	🖉 Edit	🖳 Copy	🗑 Delete	Louya	name of animal is a macho Male
☐	🖉 Edit	🖳 Copy	🗑 Delete	Welva	name of animal is a macho Male
☐	🖉 Edit	🖳 Copy	🗑 Delete	Zira	name of animal is a macho Male
☐	🖉 Edit	🖳 Copy	🗑 Delete	Java	name of animal is a macho feMale
☐	🖉 Edit	🖳 Copy	🗑 Delete	Balou	name of animal is a macho feMale
☐	🖉 Edit	🖳 Copy	🗑 Delete	Pataude	name of animal is a macho Male
☐	🖉 Edit	🖳 Copy	🗑 Delete	Bouli	name of animal is a macho feMale
☐	🖉 Edit	🖳 Copy	🗑 Delete	Cartouche	name of animal is a macho feMale
☐	🖉 Edit	🖳 Copy	🗑 Delete	Zambo	name of animal is a macho feMale
☐	🖉 Edit	🖳 Copy	🗑 Delete	Samba	name of animal is a macho feMale

Console Check all   With selected: 🖉 Edit   🖳 Copy   🗑 Delete   💾 Export

5. STORE PROCEDURE: fetch_animal_info

IN: animal id

Display the animal name, gender, dob and race.

-if animal doesn't have a name display: "No name"

-if animal doesn't have a gender display: "To Be decided"

-if animal doesn't have a race display: "Unknown"

```sql
1  DELIMITER $$
2  CREATE PROCEDURE fetch_animal_info10(IN a_id INT)
3  BEGIN
4    DECLARE var_sex VARCHAR(50);
5    DECLARE var_race_id VARCHAR(50);
6    DECLARE var_name VARCHAR(50);
7    DECLARE var_dob INT;
8        #get the animal info
9      SELECT name ,sex , YEAR(dob) , race_id  INTO var_name, var_sex, var_dob,var_race_id
10     FROM animal
11     WHERE id = a_id;
12
13     #conditions
14     IF var_name IS NULL AND var_sex IS NULL AND var_race_id IS NULL THEN
15         SET var_name = 'no name';
16         SET var_sex = 'to be decided';
17         SET var_race_id = 'unknown';
18
19     # name and sex
20     ELSEIF var_name IS NULL AND var_sex IS NULL THEN
21         SET var_name = 'no name';
22         SET var_sex = 'to be decided';
23
24     # name and race
25     ELSEIF var_name IS NULL AND var_race_id  IS NULL THEN
26         SET var_name = 'no name';
27         SET var_race_id = 'unknown';
28
29     # sex and race
30     ELSEIF var_race_id IS NULL AND var_sex IS NULL THEN
31         SET var_race_id = 'unknown';
32         SET var_sex = 'to be decided';
33     |    # name
34     ELSEIF var_name IS NULL THEN
35         SET var_name = 'no name';
36         # sex
37     ELSEIF var_sex IS NULL THEN
38         SET var_sex = 'to be decided';
39         # race
40     ELSEIF var_race_id IS NULL THEN
41         SET var_race_id = 'unknown';
42     END IF;
43         SELECT var_name 'name', var_sex 'sex', var_dob 'dob', var_race_id 'race';
44 END $$
45 DELIMITER ;
46
```

```
call fetch_animal_info10(5);
```

[Edit inline] [Edit] [Create PHP code]

☐ Show all | Number of rows: 25 ▾ Filter rows: Search this table

+ Options

name	sex	dob	race
Choupi	to be decided	2010	unknown

☐ Show all | Number of rows: 25 ▾ Filter rows: Search this table

Query results operations

🖨 Print   ⊱ Copy to clipboard   ▣ Create view