



Title

Student(s)	Shabnam Rezaei
Student Number	5298191
Course	Database Concepts and Applications
Session	
Teacher	
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1. STORE PROCEDURE: list_animals

Display the list of all the animals with a

```
DELIMITER //
```

```
CREATE PROCEDURE show_anim2_race_query()
```

```
BEGIN
```

```
SELECT animal.name, race_id
```

```
FROM animal
```

```
INNER JOIN race ON race.id=animal.race_id;
```

```
END//
```

```
DELIMITER ;
```

```
CALL show_anim2_race_query();
```

```
mysql> CALL show_anim2_race_query();
```

name	race_id
Rox	1
Rouquine	1
Zira	1
Balou	1
Bouli	1
Zambo	1
Samba	1
Pilou	1
Den	1
Caroline	2
Cali	2
Fila	2
Java	2
Welva	3
Pataude	3
Moka	3
Pipo	9
Snory	4
Filou	4
Caribou	4
Raccou	4
Callune	4
Feta	4
Bagherra	5
Zonko	5
Farceur	5
Capou	5
Zara	5
Milla	5
Bilba	5
Cracotte	5
Yoda	5
Fiero	6
Boucan	6
Boule	6
Cawette	8
Mushu	8

```
37 rows in set (0.00 sec)
```

2. STORE PROCEDURE: fetch_animal_age

IN: Animal id

OUT: Animal age in numbers

DELIMITER //

```
CREATE PROCEDURE show_anim_ages3_query(IN anim_id INT, OUT anim_age_year INT )
```

```
BEGIN
```

```
SELECT TIMESTAMPDIFF(YEAR,DATE(dob),CURDATE())AS 'year' INTO anim_age_year
```

```
FROM animal
```

```
WHERE id = anim_id;
```

```
END//
```

```
DELIMITER ;
```

```
CALL show_anim_ages3_query(19, @var_animal);
```

```
SELECT @var_animal;
```

```
mysql> DELIMITER //
```

```
mysql> CREATE PROCEDURE show_anim_ages3_query(IN anim_id INT, OUT anim_age_year INT )
```

```
-> BEGIN
```

```
-> SELECT TIMESTAMPDIFF(YEAR,DATE(dob),CURDATE())AS 'year' INTO anim_age_year
```

```
-> FROM animal
```

```
-> WHERE id = anim_id;
```

```
-> END//
```

```
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> DELIMITER ;
```

```
mysql> CALL show_anim_ages3_query(19, @var_animal);
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> SELECT @var_animal;
```

```
+-----+
```

```
| @var_animal |
```

```
+-----+
```

```
|          13 |
```

```
+-----+
```

```
1 row in set (0.00 sec)
```

3. STORE PROCEDURE: price_of_pets

IN: 3 Animal ids

OUT: Price of the 3 animals

DELIMITER |

```
CREATE PROCEDURE show_anim_price_query3(IN anim_id1 INT,IN anim_id2  
INT,IN anim_id3 INT, OUT sum_anim_price INT )
```

```
BEGIN
```

```
SELECT      SUM(COALESCE(species.price,race.price)      +race.price)      INTO  
sum_anim_price
```

```
FROM animal
```

```
JOIN species
```

```
ON animal.species_id = species.id
```

```
JOIN race
```

```
ON race.species_id=species.id
```

```
WHERE animal.id IN( anim_id1,anim_id2,anim_id3);
```

```
END|
```

DELIMITER ;

```
CALL show_anim_price_query3(2,5,8, @var_price_of_pets);
```

```
SELECT @var_price_of_pets;
```

```
mysql> CALL show_anim_price_query3(2,5,8, @var_price_of_pets);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> SELECT @var_price_of_pets;
```

```
+-----+
| @var_price_of_pets |
+-----+
|           13170 |
+-----+
1 row in set (0.00 sec)
```

```
mysql>
```

4. STORE PROCEDURE: total_age_of_animal

IN: 1 Animal id

INOUT: Cumulative age of the animals

Do it for 5 animals

```
set @added_age := 0;
```

```
DELIMITER |
```

```
CREATE PROCEDURE show_anim_ages_cum_query3(IN anim_age_id INT, OUT anim_age_cum INT )
```

```
BEGIN
```

```
SELECT ( @csum := @csum + TIMESTAMPDIF(YEAR,DATE(dob),CURDATE())) as cumulative_age INTO  
anim_age_cum
```

```
FROM animal
```

```
WHERE id = anim_age_id
```

```
;
```

```
END|
```

```
DELIMITER ;
```

```
CALL show_anim_ages_cum_query3(1, @var_animal_age);
```

```
SET @added_age = @added_age + @var_animal_age;
```

```
SELECT @var_animal_age;
```

```
select    YEAR(dob),TIMESTAMPDIFF(YEAR,DATE(dob),CURDATE()),    (@csum    :=    @csum    +  
TIMESTAMPDIFF(YEAR,DATE(dob),CURDATE())) as cumulative_age from animal  
  
order by YEAR(dob) LIMIT 5;
```

5. STORE PROCEDURE: top_x_animals

IN: How many animals to display

Display a list of x number of animals for the following:

-Youngest

-Oldest

-Cheapest

-Most Expensive

-Male

-Female

