

Title

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Course	Database Concepts and Applications
Session	
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```
1. STORE PROCEDURE: count_backwards
IN: Number to start from (x)
IN: Number to go to (Y)
Display all the numbers (inclusive) from x to y as one comma separated value
Ex: x = 10, y = 5, Display: 10,9,8,7,6,5
#while loop
DELIMITER |
CREATE PROCEDURE count_in_while2(IN x INT, IN y INT)
BEGIN
 DECLARE i INT DEFAULT 0;
  DECLARE output TEXT;
  WHILE i < (x-y+1) DO
  SET output = CONCAT_WS(",",output, x-i);
    SET i = i + 1;
  END WHILE;
  SELECT output AS Result;
```

END |

DELIMITER;

CALL count_in_while2(10,5);



2. STORE PROCEDURE: count_funny

IN: Number to start from (x)

IN: Number to go to (Y)

Display all the numbers (inclusive) from x to y and a special message for any number divisible by 5

Ex: x = 10, y = 0

Display: 10 <- funny

9

8

7

6

5 <- funny

4

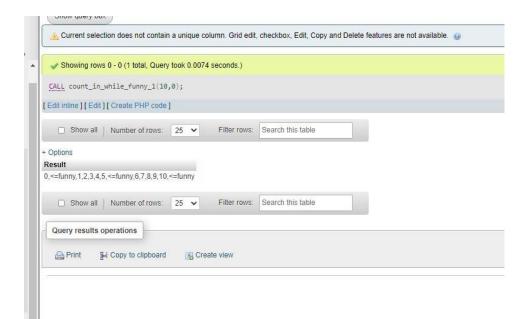
3

2

1

0 <- funny

```
DELIMITER |
CREATE PROCEDURE count_in_while_funny_2(IN x INT, IN y INT)
BEGIN
DECLARE I INT DEFAULT 0;
 DECLARE output TEXT;
 DECLARE output_1 TEXT;
 DECLARE mod_1 TEXT;
 WHILE i < (x-y+1) DO
      IF i%5 =0 THEN
      SET output=CONCAT_WS(",",output, y+i,"<=funny");</pre>
      ELSE
     SET output = CONCAT_WS(",",output, y+i);
      END IF;
    SET i = i + 1;
  END WHILE;
  SELECT output AS Result;
END |
DELIMITER;
```



```
IN: Number of days
OUT: Every two days from now up to the number of days
Hint: While or Repete
DELIMITER |
CREATE PROCEDURE count_in_date13(IN x INT)
BEGIN
DECLARE i INT DEFAULT 0;
DECLARE output TEXT;
 DECLARE output 1 DATE DEFAULT DATE(NOW());
  IF x=0 THEN
           SET output=CONCAT_WS("today is", DATE(NOW()));
  ELSEIF x=1 THEN
                 SET output=CONCAT_WS(",",DATE_ADD(output_1,INTERVAL
2 DAY));
```

3. STORE PROCEDURE: Every_two_days

```
WHILE i <= (x DIV 2) DO

SET output_1= DATE_ADD(output_1, INTERVAL 2 DAY);

SET output=CONCAT_WS(",",output,output_1);

SET i = i + 1;

END WHILE;

END IF;

SELECT output AS Result;

END |

DELIMITER;
```





4. STORE PROCEDURE: Say_ma_name

IN: Animal id

OUT: Animal's name as much as it's age.

ex: I'm 3 -> George, George

```
mysql> DELIMITER |
mysql> CREATE PROCEDURE name_in_year17(IN anim_id INT)
-> BEGIN
        DECLARE i INT DEFAULT 0;
    -> DECLARE output TEXT;
-> DECLARE output_1 TEXT;
-> DECLARE a_name VARCHAR(100);
-> DECLARE a_YEAR INT DEFAULT 0;
            SELECT name, IIMESTAMPDIFF(YEAR, DATE(dob), CURDATE()) INTO a_name, a_year FROM animal WHERE id=anim\ id;
            SET output_1=CONCAT("I am" ,a_year );
            WHILE i < a_year DO
                   SET output=CONCAT_WS(" " ,a_name,output );
            SET i = i + 1;
END WHILE;
-/
-> SELECT output_1 ,output AS Result;
-> END |
Query OK, 0 rows affected (0.00 sec)
mysql> DELIMITER ;
mysql>
mysql>
mysql>
mysql>
mysql> CALL name_in_year17(50);
  output_1 | Result
 I am13 | Cheli |
  row in set (0.00 sec)
Query OK, 0 rows affected (0.01 sec)
mysql>
```

```
5. STORE PROCEDURE: my_birthday
IN: your birthday (DATE)
Display all the dates between Jan 1 - Dec 31 of this year in a loop.
Stop the loop on your birthday (the variable entered)
Ex: 2017-01-01
2017-01-02
2017-01-03
2017-01-04
2017-01-05 <- My Birthday :D
DELIMITER |
CREATE PROCEDURE my_birthday4(IN dateStart DATE, IN dateEnd DATE)
BEGIN
declare bd datetime;
  CREATE TEMPORARY TABLE IF NOT EXISTS date_range (day DATE);
  WHILE dateStart <= dateEnd DO
   INSERT INTO date_range VALUES (dateStart);
   SET dateStart = DATE_ADD(dateStart, INTERVAL 1 DAY);
  END WHILE;
```

SELECT * FROM date_range;

END|

DELIMITER;

call my_birthday4('2019-01-01 00:00:00', '2019-01-21 00:00:00');

