



## Title

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Course	Database Concepts and Applications
Session	
Teacher	
Date	2022-10-05

## 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);

✓ Showing rows 0 - 0 (1 total, Query took 0.0020 seconds.)

`CALL count_in_while2(10,5);`

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

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

+ Options

Result

10,9,8,7,6,5

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

Query results operations

Print | Copy to clipboard | Create view

## **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");

ELSE

SET output = CONCAT\_WS(", ",output, y+i);

END IF;

SET i = i + 1;

END WHILE;

SELECT output AS Result;

END |

DELIMITER ;

Show query box

⚠ Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available. ⓘ

✓ Showing rows 0 - 0 (1 total, Query took 0.0074 seconds.)

CALL count\_in\_while\_funny\_1(10,0);

[\[ Edit inline \]](#) [\[ Edit \]](#) [\[ Create PHP code \]](#)

☐ Show all | Number of rows: 25 ▾ | Filter rows:

+ Options

**Result**

0,<=funny,1,2,3,4,5,<=funny,6,7,8,9,10,<=funny

☐ Show all | Number of rows: 25 ▾ | Filter rows:

Query results operations

 Print  Copy to clipboard  Create view

### 3. STORE PROCEDURE: Every\_two\_days

**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));

ELSE

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 ;



✓ Showing rows 0 - 0 (1 total, Query took 0.0027 seconds.)

`call count_in_date13(5);`

[\[ Edit inline \]](#) [\[ Edit \]](#) [\[ Create PHP code \]](#)

☐ Show all

Number of rows: 25 ▼

Filter rows:

+ Options

Result

2022-10-08,2022-10-10,2022-10-12

☐ Show all

Number of rows: 25 ▼

Filter rows:

Query results operations

[Print](#) [Copy to clipboard](#) [Create view](#)

⚠ Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

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

`call count_in_date13(0);`

[\[ Edit inline \]](#) [\[ Edit \]](#) [\[ Create PHP code \]](#)

☐ Show all

Number of rows: 25 ▼

Filter rows:

+ Options

Result

2022-10-06

☐ Show all

Number of rows: 25 ▼

Filter rows:

Query results operations

[Print](#) [Copy to clipboard](#) [Create view](#)

#### 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, George

```
mysql>
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, TIMESTAMPDIFF(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> CALL name_in_year17(50);
+-----+-----+
| output_1 | Result                                     |
+-----+-----+
| I am13   | Cheli Cheli Cheli Cheli Cheli Cheli Cheli Cheli Cheli Cheli Cheli Cheli |
+-----+-----+
1 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**