



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>
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

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');
```

<pre>call my_birthday4('2019-01-01 00:00:00', '2019-01-21 00:00:00');</pre>	
[Edit inline] [Edit] [Create PHP code]	
<input type="checkbox"/> Show all	Number of rows: 25 <input type="button" value="v"/>
Filter rows:	<input type="text" value="Search this table"/>
+ Options	
day	
2019-01-01	
2019-01-02	
2019-01-03	
2019-01-04	
2019-01-05	
2019-01-06	
2019-01-07	
2019-01-08	
2019-01-09	
2019-01-10	
2019-01-11	
2019-01-12	
2019-01-13	
2019-01-14	
2019-01-15	
2019-01-16	
2019-01-17	
2019-01-18	
2019-01-19	
2019-01-20	
2019-01-21	