

Отчет по хранимым процедурам и выполнение примеров из изученного материала

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```
MariaDB [16_10]> DELIMITER //
MariaDB [16_10]> CREATE PROCEDURE `p2` ()
  ->
  -> LANGUAGE SQL
  -> DETERMINISTIC
  -> SQL SECURITY DEFINER
  -> COMMENT 'A procedure'
  -> begin
  -> SELECT 'Hello World !';
  -> end//
Query OK, 0 rows affected (0.009 sec)
```

```
MariaDB [16_10]> call p2
  -> //
```

```
+-----+
| Hello World ! |
+-----+
| Hello World ! |
+-----+
1 row in set (0.002 sec)
```

```
Query OK, 0 rows affected (0.005 sec)
```

```
MariaDB [16_10]> DROP PROCEDURE IF EXISTS p2;
  -> //
Query OK, 0 rows affected (0.006 sec)
```

```
MariaDB [16_10]> DELIMITER //
MariaDB [16_10]> CREATE PROCEDURE `proc_IN` (IN var1 INT)
  -> BEGIN
  ->     SELECT var1 + 2 AS result;
  -> END//
Query OK, 0 rows affected (0.008 sec)
```

```
MariaDB [16_10]> CREATE PROCEDURE `proc_OUT` (OUT var1 VARCHAR(100))
  -> BEGIN
  ->     SET var1 = 'This is a test';
  -> END //
Query OK, 0 rows affected (0.008 sec)
```

```
MariaDB [16_10]> CREATE PROCEDURE `proc_INOUT` (OUT var1 INT)
  -> BEGIN
  ->     SET var1 = var1 * 2;
  -> END //
Query OK, 0 rows affected (0.007 sec)
```

```
MariaDB [16_10]> CREATE PROCEDURE `var_proc` (IN paramstr VARCHAR(20))
  -> BEGIN
  ->     DECLARE a, b INT DEFAULT 5;
  ->     DECLARE str VARCHAR(50);
  ->     DECLARE today TIMESTAMP DEFAULT CURRENT_DATE;
  ->     DECLARE v1, v2, v3 TINYINT;
  ->
  ->     INSERT INTO table1 VALUES (a);
  ->     SET str = 'I am a string';
  ->     SELECT CONCAT(str,paramstr), today FROM table2 WHERE b >=5;
  -> END //
Query OK, 0 rows affected (0.007 sec)
```

```
MariaDB [16_10]> CREATE PROCEDURE `proc_IF` (IN param1 INT)
-> BEGIN
->   DECLARE variable1 INT;
->   SET variable1 = param1 + 1;
->
->   IF variable1 = 0 THEN
->     SELECT variable1;
->   END IF;
->
->   IF param1 = 0 THEN
->     SELECT 'Parameter value = 0';
->   ELSE
->     SELECT 'Parameter value <> 0';
->   END IF;
-> END //
```

Query OK, 0 rows affected (0.006 sec)

```
MariaDB [16_10]> CREATE PROCEDURE `proc_CASE` (IN param1 INT)
-> BEGIN
->   DECLARE variable1 INT;
->   SET variable1 = param1 + 1;
->
->   CASE variable1
->     WHEN 0 THEN
->       INSERT INTO table1 VALUES (param1);
->     WHEN 1 THEN
->       INSERT INTO table1 VALUES (variable1);
->     ELSE
->       INSERT INTO table1 VALUES (99);
->   END CASE;
->
-> END //
```

Query OK, 0 rows affected (0.008 sec)

```
MariaDB [16_10]> CREATE PROCEDURE `proc_CASE_2` (IN param1 INT)
-> BEGIN
->     DECLARE variable1 INT;
->     SET variable1 = param1 + 1;
->
->     CASE
->         WHEN variable1 = 0 THEN
->             INSERT INTO table1 VALUES (param1);
->         WHEN variable1 = 1 THEN
->             INSERT INTO table1 VALUES (variable1);
->         ELSE
->             INSERT INTO table1 VALUES (99);
->     END CASE;
->
-> END //
```

Query OK, 0 rows affected (0.013 sec)

```
MariaDB [16_10]> CREATE PROCEDURE `proc_WHILE` (IN param1 INT)
-> BEGIN
->     DECLARE variable1, variable2 INT;
->     SET variable1 = 0;
->
->     WHILE variable1 < param1 DO
->         INSERT INTO table1 VALUES (param1);
->         SELECT COUNT(*) INTO variable2 FROM table1;
->         SET variable1 = variable1 + 1;
->     END WHILE;
-> END //
```

Query OK, 0 rows affected (0.008 sec)

```
MariaDB [16_10]> CREATE PROCEDURE `proc_CURSOR` (OUT param1 INT)
-> BEGIN
->     DECLARE a, b, c INT;
->     DECLARE cur1 CURSOR FOR SELECT col1 FROM table1;
->     DECLARE CONTINUE HANDLER FOR NOT FOUND SET b = 1;
->     OPEN cur1;
->
->     SET b = 0;
->     SET c = 0;
->
->     WHILE b = 0 DO
->         FETCH cur1 INTO a;
->         IF b = 0 THEN
->             SET c = c + a;
->         END IF;
->     END WHILE;
->
->     CLOSE cur1;
->     SET param1 = c;
->
-> END //
```

Query OK, 0 rows affected (0.007 sec)