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## syntax error from CREATE USER with variables giving username and password

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Stored procedure code:

```
CREATE DEFINER = `root` @`localhost` PROCEDURE `P_CreateUser3` (
  IN _Username NVARCHAR(30), IN _Password NVARCHAR(32), IN _DBName VARCHAR(20))
BEGIN
  CREATE USER _Username @`localhost` IDENTIFIED BY _Password ;
  GRANT SELECT, UPDATE, DELETE, INSERT
  ON _DBName.*
  TO _Username @`localhost`
  WITH GRANT OPTION ;
END $$
```

Error Code: 1064 You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '\_Password' ; GRANT SELECT, UPDATE, DELETE, INSERT ON `pr` at line 6

help me please.

mysql

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edited Jul 6 '12 at 20:34

wallyk 48.2k 10 63 122

asked Jul 6 '12 at 20:05

Ebrahim 45 1 8

2 The unsupported use of stored procedure input parameters as passwords in a CREATE USER or GRANT statement is documented in this bug. – Michael Berkowski Jul 6 '12 at 20:19

1 Hmm I wouldn't have even tried that. Just reached straight for exec('SomeQuery') – Tony Hopkinson Jul 6 '12 at 20:28

@eggyal Looks like I had it as an answer originally. I restored and undeleted it. – Michael Berkowski Sep 4 '12 at 16:20

asked 6 years, 6 months ago

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2 Answers

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Unfortunately, the use of stored procedure input parameters as passwords in a CREATE USER or GRANT statement is documented in this bug as unsupported. So you cannot actually do what you attempted.

It would be possible to PREPARE and EXECUTE a statement which is built by CONCAT() to concatenate in the new password, but this is not a secure method and is therefore not recommended. You lose all the security benefits of the stored procedure if you were to do it that way.

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edited Sep 4 '12 at 16:18

answered Jul 6 '12 at 20:06

Michael Berkowski 223k 34 375 345

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You must use prepared statements because the variables doesn't evaluate directly in queries.

```
DELIMITER $$

DROP PROCEDURE IF EXISTS `create_user` $$

CREATE PROCEDURE `create_user` (
  `user_name` VARCHAR(50),
  `passwd` VARCHAR(255),
  `ip` VARCHAR(50)
)
BEGIN
  set @sql = concat("CREATE USER '", `user_name`, "'@'", `ip`, "' IDENTIFIED BY '", `passwd`, "'");
  PREPARE stmt1 FROM @sql;
  EXECUTE stmt1;
  DEALLOCATE PREPARE stmt1;

  set @sql = concat("GRANT ALL PRIVILEGES ON * . * TO '", `user_name`, "'@'", `ip`, "' ");
  PREPARE stmt2 FROM @sql;
  EXECUTE stmt2;
  DEALLOCATE PREPARE stmt2;

  FLUSH PRIVILEGES;
END $$

DELIMITER ;
```

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answered Jul 17 '18 at 23:28

Ivan Cachicatarí 3,515 2 14 35

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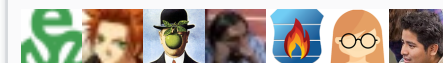
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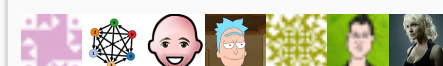
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