V MySQL**TUTORIAL**

MySQL Stored Procedures

In this section, you will learn how to develop stored programs including stored procedures and stored functions in MySQL.

Section 1. Stored procedure basics

- Introduction to Stored Procedures in MySQL (https://www.mysqltutorial.org/introduction-to-sql-stored-procedures.aspx) – introduce you to stored procedures, their advantages, and disadvantages.

- Changing the default delimiter (https://www.mysqltutorial.org/mysql-stored-procedure/mysql-delimiter/) – learn how to change the default delimiter in MySQL.

- Creating new stored procedures (https://www.mysqltutorial.org/getting-started-with-mysql-stored-procedures.aspx) – show you how to create use the `CREATE PROCEDURE` statement to create a new stored procedure in the database.

- Removing stored procedures (https://www.mysqltutorial.org/mysql-stored-procedure/mysql-drop-procedure/) – show you how to use the `DROP PROCEDURE` statement to drop an existing stored procedure.

- Variables (https://www.mysqltutorial.org/variables-in-stored-procedures.aspx) – guide on you how to use variables to hold immediate results inside stored procedures.

- Parameters (https://www.mysqltutorial.org/stored-procedures-parameters.aspx) – introduce you to various types of parameters used in stored procedures including `IN` , `OUT` , and `INOUT` parameter.

- Altering stored procedure (https://www.mysqltutorial.org/mysql-stored-procedure/alter-stored-procedure/) – show you step by step how to alter a stored procedure using a sequence of `DROP PROCEDURE` and `CREATE PROCEDURE` statements in MySQL Workbench.

- Listing stored procedures (https://www.mysqltutorial.org/listing-stored-procedures-in-mysql-database.aspx) – provide you with some useful commands to list stored procedures from databases.

Section 2. Conditional Statements

- IF statement (https://www.mysqltutorial.org/mysql-if-statement/) – show you how to use the `IF THEN` statement in stored procedures.

- CASE statement (https://www.mysqltutorial.org/mysql-case-statement/) – introduce you to the `CASE` statements including simple `CASE` and searched `CASE` statements.

Section 3. Loops

- LOOP (https://www.mysqltutorial.org/stored-procedures-loop.aspx) – learn how to execute a list of statements repeatedly based on a condition.

- WHILE Loop (https://www.mysqltutorial.org/mysql-stored-procedure/mysql-while-loop/) – show you how to execute a loop as long as a condition is true.

- REPEAT Loop (https://www.mysqltutorial.org/mysql-stored-procedure/mysql-repeat-loop/) – show you how to execute a loop until a search condition is true.

- LEAVE statement (https://www.mysqltutorial.org/mysql-stored-procedure/mysql-leave/) – guide you on how to exit a loop immediately.

Section 4. Error Handling

- Handing exceptions (https://www.mysqltutorial.org/mysql-error-handling-in-stored-procedures/) – show you how to handle exception and errors in stored procedures.

- Raising errors (https://www.mysqltutorial.org/mysql-signal-resignal/) – learn how to use `SIGNAL` and `RESIGNAL` to raise errors in stored procedures.

Section 5. Cursors

- Cursors (https://www.mysqltutorial.org/mysql-cursor/) – learn how to use cursors to process row by row in a result set.

Section 6. Stored Functions

- Creating a stored function (https://www.mysqltutorial.org/mysql-stored-function/) – show you how to use the create stored functions in the database.

- Removing a stored function (https://www.mysqltutorial.org/mysql-stored-procedure/mysql-drop-function/) – use the `DROP FUNCTION` statement to remove a stored function.

- Listing stored functions (https://www.mysqltutorial.org/mysql-stored-procedure/mysql-show-function/) – learn how to list all stored functions in the database by using the `SHOW FUNCTION STATUS` or querying from the data dictionary.

Section 7. Stored Program Security

- Stored object access control (https://www.mysqltutorial.org/mysql-stored-procedure/mysql-stored-object-access-control/) – learn how to control the security of the stored objects.