**Stored procedures**

Stored procedures are a batch of SQL statements that can be executed in a couple of ways.

A stored procedure is a set of precompiled SQL statements that are used to perform a special task.

A stored procedure is a group of SQL statements that has been created and stored in the database. A stored procedure will accept input parameters so that a single procedure can be used over the network by several clients using different input data. A stored procedures will reduce network traffic and increase the performance. If we modify a stored procedure all the clients will get the updated stored procedure.

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Sample of creating a stored procedure

CREATE PROCEDURE test\_display  
AS  
 SELECT FirstName, LastName  
 FROM tb\_test;  
  
**Advantages of using stored procedures**

A stored procedure allows modular programming.

You can create the procedure once, store it in the database, and call it any number of times in your program.

A stored procedure allows faster execution.

If the operation requires a large amount of SQL code that is performed repetitively, stored procedures can be faster. They are parsed and optimized when they are first executed, and a compiled version of the stored procedure remains in a memory cache for later use. This means the stored procedure does not need to be reparsed and reoptimized with each use, resulting in much faster execution times.

A stored procedure can reduce network traffic.

An operation requiring hundreds of lines of Transact-SQL code can be performed through a single statement that executes the code in a procedure, rather than by sending hundreds of lines of code over the network.(reduces lines of code in programming side, instead of processing between app and db, db will process using procedures)

DELIMITER //

CREATE PROCEDURE userlist

(IN uname CHAR(20))

begin

select id from userlist

where name = uname;

end //

DELIMITER ;

To call the procedure

call userlist("rick");

//output : your will get id of user rick

To delete procedure

drop procedure userlist;

//note: while dropping procedure you no need to send parameters