

# **DID YOU KNOW WHAT IS A STORED PROCEDURE IN SQL?**



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-> A stored procedure is a pre-compiled collection of SQL statements that can be called by a program or application to perform a specific task.

-> Stored procedures are stored in a database and can be used to perform a wide range of tasks, from simple queries to complex business logic.



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Stored procedures have several advantages over ad-hoc SQL statements:

- **Performance:** Stored procedures are pre-compiled, which means that the database can execute them more efficiently than ad-hoc SQL statements.
- **Security:** Stored procedures can be granted specific permissions, which can help to prevent unauthorized access to sensitive data.

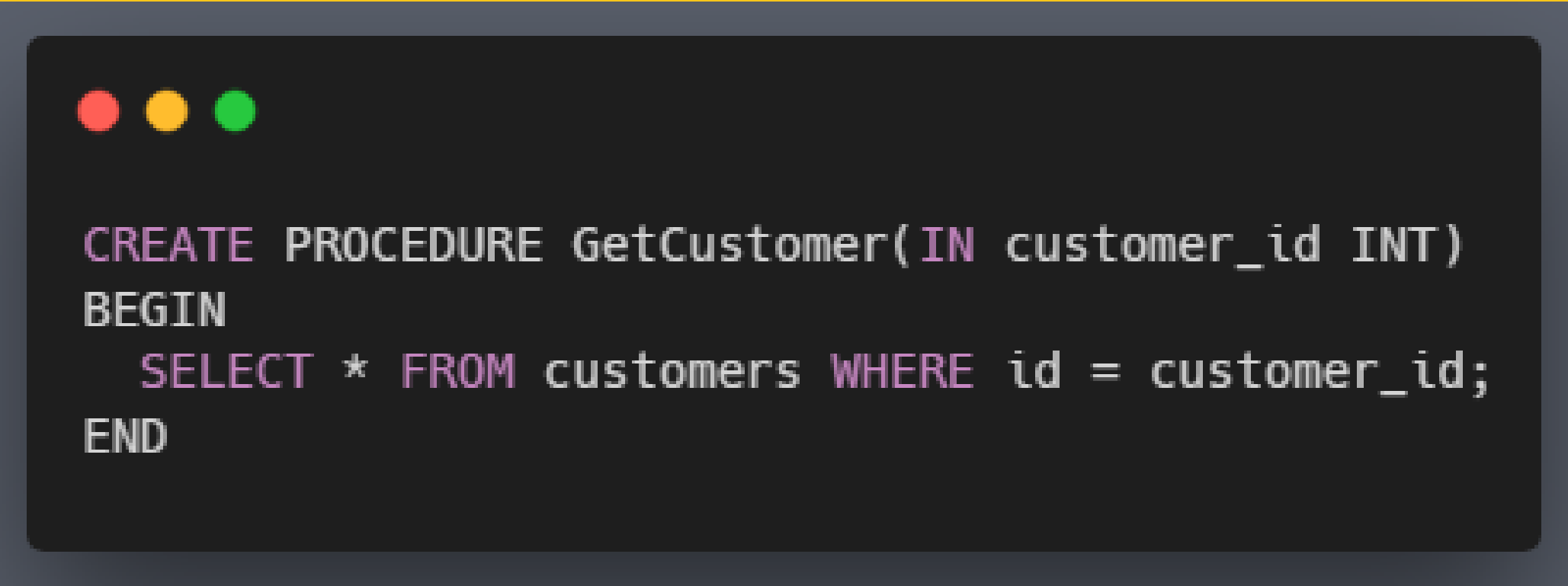


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- **3. Reusability:** Stored procedures can be called from multiple programs or applications, which can reduce the amount of code that needs to be written and maintained.
  - **4. Maintainability:** Stored procedures are stored in the database, which makes them easier to maintain and modify than ad-hoc SQL statements that are scattered throughout an application.
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To create a stored procedure in SQL, you can use the CREATE PROCEDURE statement. Here is an example of creating a simple stored procedure:



```
CREATE PROCEDURE GetCustomer(IN customer_id INT)
BEGIN
    SELECT * FROM customers WHERE id = customer_id;
END
```



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This stored procedure can be called by using the **CALL** statement:

```
CALL GetCustomer(123);
```

This would execute the stored procedure and return all rows from the customers table where the id column is equal to 123.



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