Stored Routines - Conclusion

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Stored Routines - Conclusion

TECHNICAL DIFFERENCES

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Stored Routines - Conclusion

TECHNICAL DIFFERENCES

stored procedure

TECHNICAL DIFFERENCES

stored procedure

Stored Routines - Conclusion

TECHNICAL DIFFERENCES

user-defined
function

stored procedure

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Stored Routines - Conclusion

TECHNICAL DIFFERENCES

stored procedure	user-defined function
	returns a value

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Stored Routines - Conclusion

TECHNICAL DIFFERENCES

stored procedure	user-defined function
does not return a value	returns a value

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Stored Routines - Conclusion

TECHNICAL DIFFERENCES

stored procedure	user-defined function
does not return a value	returns a value
CALL procedure;	

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Stored Routines - Conclusion

TECHNICAL DIFFERENCES

stored procedure	user-defined function
does not return a value	returns a value
CALL procedure;	SELECT function;

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Stored Routines - Conclusion

CONCEPTUAL DIFFERENCES

Stored Routines - Conclusion

CONCEPTUAL DIFFERENCES

stored procedure

user-defined function

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Stored Routines - Conclusion

CONCEPTUAL DIFFERENCES

stored procedure	user-defined function
can have *multiple* OUT parameters	

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Stored Routines - Conclusion

CONCEPTUAL DIFFERENCES

stored procedure	user-defined function
can have *multiple* OUT parameters	can return a *single* value only

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Stored Routines - Conclusion

CONCEPTUAL DIFFERENCES

stored procedure	user-defined function
can have *multiple* OUT parameters	can return a *single* value only

- if you need to obtain more than one value as a result of a calculation, you are better off *using a procedure*

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Stored Routines - Conclusion

CONCEPTUAL DIFFERENCES

stored procedure	user-defined function
can have *multiple* OUT parameters	can return a *single* value only

- if you need to obtain more than one value as a result of a calculation, you are better off *using a procedure*

- if you need to just one value to be returned, then you can *use a function*

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Stored Routines - Conclusion

- how about involving an <u>INSERT</u>, an <u>UPDATE</u>, or a <u>DELETE</u> statement?

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Stored Routines - Conclusion

how about involving an <u>INSERT</u>, an <u>UPDATE</u>, or a <u>DELETE</u> statement?

- in those cases, the operation performed will apply changes to the data in your database

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Stored Routines - Conclusion

- how about involving an <u>INSERT</u>, an <u>UPDATE</u>, or a <u>DELETE</u> statement?

- in those cases, the operation performed will apply changes to the data in your database

- there will be no value, or values, to be returned and displayed to the user

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Stored Routines - Conclusion

CONCEPTUAL DIFFERENCES

stored procedure	user-defined function
can have *multiple* OUT parameters	can return a *single* value only

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Stored Routines - Conclusion

CONCEPTUAL DIFFERENCES

stored procedure	**user-defined function**
can have *multiple* OUT parameters	can return a *single* value only
	INSERT UPDATE DELETE

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Stored Routines - Conclusion

CONCEPTUAL DIFFERENCES

stored procedure	**user-defined function**
can have *multiple* OUT parameters	can return a *single* value only
	INSERT UPDATE DELETE

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Stored Routines - Conclusion

CONCEPTUAL DIFFERENCES

stored procedure	**user-defined function**
can have *multiple* OUT parameters	can return a *single* value only
INSERT UPDATE DELETE	INSERT UPDATE DELETE ✖

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Stored Routines - Conclusion

CONCEPTUAL DIFFERENCES

stored procedure	**user-defined function**
can have *multiple* OUT parameters	can return a *single* value only
✅ INSERT UPDATE DELETE	❌ INSERT UPDATE DELETE

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Stored Routines - Conclusion

stored procedure

user-defined function

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Stored Routines - Conclusion

stored procedure

user-defined function

TECHNICAL DIFFERENCE

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Stored Routines - Conclusion

stored procedure

user-defined function

TECHNICAL DIFFERENCE

CALL procedure;

SELECT function;

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Stored Routines - Conclusion

stored procedure　　|　　user-defined function

TECHNICAL DIFFERENCE

CALL procedure;　　|　　SELECT function;

CONCEPTUAL DIFFERENCE

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Stored Routines - Conclusion

stored procedure

user-defined function

TECHNICAL DIFFERENCE

`CALL` procedure;

`SELECT` function;

CONCEPTUAL DIFFERENCE

- you can easily include a function as one of the columns inside a <u>SELECT</u> statement

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Stored Routines - Conclusion

stored procedure

user-defined function

TECHNICAL DIFFERENCE

`CALL` procedure;

`SELECT` function;

CONCEPTUAL DIFFERENCE

- including a procedure in a <u>SELECT</u> statement is impossible

- you can easily include a function as one of the columns inside a <u>SELECT</u> statement

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Stored Routines - Conclusion

- once you become an advanced SQL user, and have gained a lot of practice, you will appreciate the advantages and disadvantages of both types of programs

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Stored Routines - Conclusion

- once you become an advanced SQL user, and have gained a lot of practice, you will appreciate the advantages and disadvantages of both types of programs

- you will encounter many cases where you should choose between procedures and functions

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Stored Routines - Conclusion

- what we did in this section was to lay the foundation of the relevant <u>syntax</u>, as well as performing <u>exercises</u> on the practical aspects of these tools

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