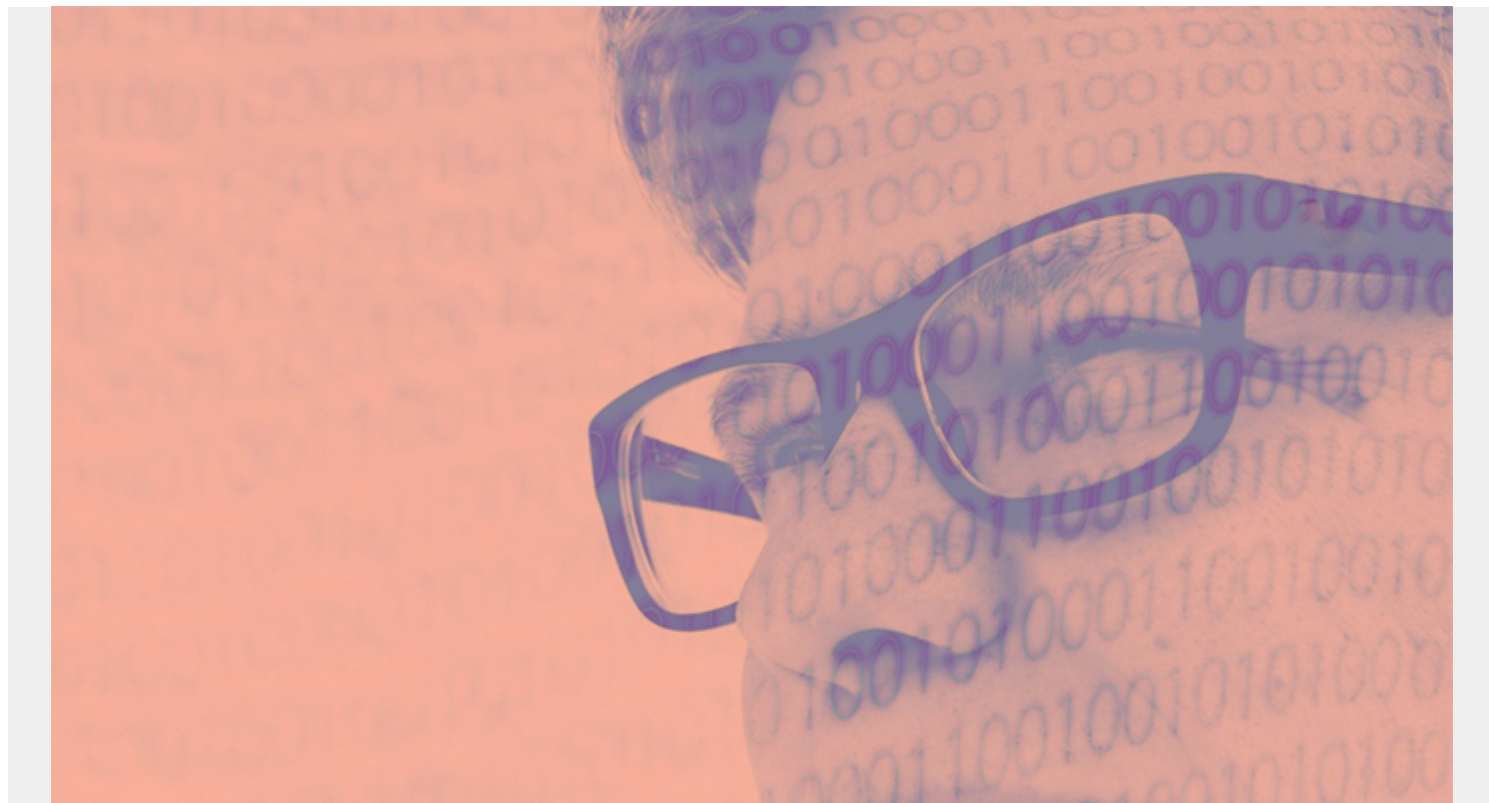


SQL CONTROL STATEMENTS IN DB2 12



SQL CONTROL STATEMENT

```
>>__assignment-statement_____><
|_CALL statement_____|
|_CASE statement_____|
|_compound-statement____|
|_FOR statement_____|
|_GET DIAGNOSTICS stmt_|
|_GOTO statement_____|
|_IF statement_____|
|_ITERATE statement____|
|_LEAVE statement_____|
|_LOOP statement_____|
|_REPEAT statement_____|
|_RESIGNAL statement____|
|_RETURN statement_____|
|_SIGNAL statement_____|
|_WHILE statement_____|
```

(This article is part of our [Db2 Guide](#). Use the right-hand menu to navigate.)

Assignment

```

>> _____SET_____assignment-clause_____>>
|_label:_| assignment-clause: >_____SQL-parameter-name__=_CURRENT
SERVER_____>< | |_SQL-variable-name_| |_CURRENT
PACKAGESET_____|
|
| _____|_CURRENT PACKAGE PATH_|
|
| <_,_____|
| _____SQL-parameter-name__=_expression_|_____|
| |_SQL-variable-name_| ||_NULL_____|
|
| <_,_____<_,_____|
| |_( _____SQL-parameter-name_|_)_|_=( _____expression_|_____|
| _____|_SQL-variable-name_| ||_NULL_____|
| _____|_VALUES_____expression_____|
| _____||_NULL_____|
| _____|_<_,_____|
| _____|_( _____expression_|_)_|
| _____|_NULL_____|

```

CALL

```

>> __CALL__procedure-name_____>
>_____><
|_(_____)_|
|   |<_,_____|| |
|   |____SQL-variable-name_____||
|   |   |SQL-parameter-name_____||
|   |   |expression_____||
|   |   |NULL_____||

```

CASE

```

> __CASE____searched-case-statement-when-clause____>
      |_simple-case-statement-when-clause_|
> _____END CASE_____>
      |<_____||
      |_ELSE____SQL-procedure-statement_____|

```

searched-case-statement-when-clause:

```
< _____  
                                     < _____ |  
> WHEN search-condition THEN SQL-procedure-statement ; ! | _____>
```

simple-case-statement-when-clause:

```
> __expression_____>
<_____
<_____ I >__WHEN__expression__THEN__SQL-procedure-
statement__;_I_I_____>

</_____></_____
_____>
```

Compound

```
>>_____BEGIN__I_____I_____>
I_label:_I
>_____>
I <_____ I I_____SQL-variable-
declaration_____;_I_I I_condition-declaration____I I_return-codes-
declaration_I
>_____>
I <_____I
I_____DECLARE-CURSOR-statement____;_I_I
<_____
>_____SQL-procedure-statement____;_I_____>
I <_____I I_____handler-declaration____;_I_I
>__END_____><
I_label_I SQL-variable-declaration:
>>__DECLARE_____>
<_,_____ _DEFAULT NULL_____>__SQL-variable-name_I_data-
type_I_____I_____>< I I_DEFAULT__constant_I I
I_RESULT_SET_LOCATOR VARYING_____I condition-declaration:
>>__DECLARE__condition-name__CONDITION__FOR__string-constant_____><
I_SQLSTATE_____I I_VALUE_I return-codes-declaration: _DEFAULT
'00000'_____>>__DECLARE__
_SQLSTATE__CHAR(5)_I_____I_____>< I
I_DEFAULT__constant_____I I I_DEFAULT 0_____I
I_SQLCODE__INTEGER_I_____I_I I_DEFAULT__constant
statement-declaration: >>__DECLARE__statement-
name__STATEMENT_____>< handler-declaration:
>>__DECLARE__CONTINUE__HANDLER__FOR_____>
I_EXIT_____I
>__specific-condition-value_____SQL-procedure-statement_____><
I_general-condition-value_I
```

specific-condition-value:

```
<_,_____ _VALUE_ I
>>__SQLSTATE_I_____I_string_I_____><
I_condition-name_____I general-condition-value:
```

```
>>__SQLEXCEPTION____><
I_SQLWARNING__I
    I_NOT FOUND____I
```

FOR

```
>>_____FOR_____>
I_label:_I    I_for-loop-name_AS_I    _WITHOUT HOLD_    I
                                I_csr-name_CURSOR_I_____I_FOR_I
                                I_WITH HOLD__I
                                <_____>_select-statement__DO__SQL-
procedure-statement_I_;__END FOR_____>< I_label:_I
```

GET DIAGNOSTICS

```
>>__GET DIAGNOSTICS__SQL-variable-name__=__ROW_COUNT____><
```

GOTO

```
>>_____GOTO__target-label_____><
I_label:_I
```

IF

```
                                <_____>>__IF__search-
condition__THEN____SQL-procedure-statement__;_I_____>
<_____>_____
_____I_____>
    I_____<_____I
I_ELSEIF__search-condition__THEN____SQL-procedure-statement__;_I_I
>_____END IF_____><
I_____I
    I_ELSE____SQL-procedure-statement__;_I_I
```

ITERATE

```
>>_____ITERATE__target-label_____><
I_label:_I
```

LEAVE

```
>> _____ LEAVE _____ target-label _____><
I_label:_I
```

LOOP

```
< _____>> _____ LOOP _____ SQL-procedure-
statement____;_I_END LOOP _____>< I_label:_I
I_label_I
```

REPEAT

```
< _____>> _____ REPEAT _____ SQL-procedure-
statement____;_I _____>
    I_label:_I
>_UNTIL_ search-condition__END REPEAT _____><
I_label_I
```

RESIGNAL

```
>> _____ RESIGNAL _____>
    I_label:_I
>
    I ______VALUE_____I
    I__SQLSTATE____I_____I__sqlstate-string-constant_____I
    I _____I__SQL-variable-name_____III_signal-information_I
    I _____I__SQL-parameter-name____I I
    I__SQL-condition-name_____I
```

signal-information:

```
>>__SET MESSAGE TEXT __=__diagnostic-string-expression_____>
```

RETURN

```
>> _____ RETURN _____>
    I_label:_I
    I_expression_____I
    I_NULL_____I
    I _____fullselect_I
    I < _____I
    I__WITH_common-table-expression_I_I
```

SIGNAL

```
>> _____ SIGNAL _____>
    |_label:_|
> _____>
    | _____|
    |_SQLSTATE_| _____|_sqlstate-string-constant_| |
    | _____|_SQL-variable-name_|_|_signal-information_|
    | _____|_SQL-parameter-name_||
    |_SQL-condition-name_|
```

signal-information:

```
>> __SET MESSAGE TEXT __=__diagnostic-string-expression____>
```

WHILE

```
>> _____WHILE_search-condition_DO_SQL-procedure-statement_;_END WHILE____>
    |_label:_| _____|_label_|
```

SQL Procedure statement

```
>> __SQL-control-statement____><
ALLOCATE CURSOR statement
ALTER DATABASE statement
ALTER FUNCTION statement (external scalar, external table,
sourced,
SQL scalar, or SQL table)
ALTER INDEX statement
ALTER PROEDURE statement (external, SQL-external,or SQL-
native)
ALTER SEQUENCE statement
ALTER STOGROUP statement
ALTER TABLE statement
ALTER TABLESPACE statement
ALTER TRUSTED CONTEXT statement
ALTER VIEW statement
ASSOCIATE LOCATORS statement
CALL statement
CLOSE statement
COMMENT statement
COMMIT statement
CONNECT statement
CREATE ALIAS statement
CREATE DATABASE statement
CREATE FUCNTION statement (external scalar, external table,
```

sourced)

CREATE GLOBAL TEMPORARY TABLE statement
CREATE INDEX statement
CREATE PROCEDURE statement (external)
CREATE ROLE statement
CREATE SEQUENCE statement
CREATE STOGROUP statement
CREATE TABLE statement
CREATE TABLESPACE statement
CREATE TRUSTED CONTEXT statement
CREATE TYPE statement
CREATE VIEW statement
DECLARE CURSOR statement
DECLARE GLOBAL TEMPORARY TABLE statement
DELETE statement
DROP statement
EXCHANGE statement
EXECUTE statement
EXECUTE IMMEDIATE statement
FETCH statement
GET DIAGNOSTICS statement
GRANT statement
INSERT statement
LABEL statement
LOCK TABLE statement
MERGE statement
OPEN statement
PREPARE statement
REFRESH TABLE statement
RELEASE statement
RELEASE SAVEPOINT statement
RENAME statement
REVOKE statement
ROLLBACK statement
SAVEPOINT statement
SELECT INTO statement
SET CONNECTION statement
SET special-register statement
TRUNCATE statement
UPDATE statement
VALUES INTO statement

</_----->

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