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# CREATE MATERIALIZED VIEW

## Name

CREATE MATERIALIZED VIEW -- define a new materialized view

## Synopsis

```
CREATE MATERIALIZED VIEW table_name
    [ (column_name [, ...] ) ]
    [ WITH ( storage_parameter [= value] [, ... ] ) ]
    [ TABLESPACE tablespace_name ]
    AS query
    [ WITH [ NO ] DATA ]
```

## Description

CREATE MATERIALIZED VIEW defines a materialized view of a query. The query is executed and used to populate the view at the time the command is issued (unless WITH NO DATA is used) and may be refreshed later using REFRESH MATERIALIZED VIEW.

CREATE MATERIALIZED VIEW is similar to CREATE TABLE AS, except that it also remembers the query used to initialize the view, so that it can be refreshed later upon demand. A materialized view has many of the same properties as a table, but there is no support for temporary materialized views or automatic generation of OIDs.

## Parameters

table\_name

The name (optionally schema-qualified) of the materialized view to be created.

column\_name

The name of a column in the new materialized view. If column names are not provided, they are taken from the output column names of the query.

WITH ( storage\_parameter [= value] [, ... ] )

This clause specifies optional storage parameters for the new materialized view; see [Storage Parameters](#) for more information. All parameters supported for CREATE TABLE are also supported for CREATE MATERIALIZED VIEW with the exception of OIDs. See [CREATE TABLE](#) for more information.

TABLESPACE tablespace\_name

The tablespace\_name is the name of the tablespace in which the new materialized view is to be created. If not specified, [default\\_tablespace](#) is consulted.

query

A [SELECT](#), [TABLE](#), or [VALUES](#) command. This query will run within a security-restricted operation; in particular, calls to functions that themselves create temporary tables will fail.

WITH [ NO ] DATA

This clause specifies whether or not the materialized view should be populated at creation time. If not, the materialized view will be flagged as unscannable and cannot be queried until `REFRESH MATERIALIZED VIEW` is used.

## Compatibility

`CREATE MATERIALIZED VIEW` is a PostgreSQL extension.

## See Also

[ALTER MATERIALIZED VIEW](#), [CREATE TABLE AS](#), [CREATE VIEW](#), [DROP MATERIALIZED VIEW](#), [REFRESH MATERIALIZED VIEW](#)

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