

# Common Table Expression in SQL: Takeaways



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## Syntax

- Writing a simple CTE

```
WITH
cte_name AS (
    SELECT definition
)
SELECT definition using cte_name
```

- Writing multiple CTE definitions

```
WITH
cte_name_1 AS (
    SELECT definition 1
),
cte_name_2 AS (
    SELECT definition 2
),
...,
cte_name_n AS (
    SELECT definition 1
)
SELECT definition using CTEs
```

- Writing recursive CTEs

```
WITH RECURSIVE
cte_name AS (
    Initialization query definition
    compound-operator
    recursive query definition using cte_name
)
SELECT definition using cte_name
```

## Concepts

- A Common Table Expression (CTE) allows us to give a name to a subquery like an alias.
- We use CTEs with the `WITH` clause.
- A Recursive CTE is a query that calls itself.

## Resources

- [CTE](#)

