

SQL

SubQuery, CTEs, Views

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SubQuery

SubQuery

Query-a-Query

- A query inside another query. Inner query runs first.
- Generally used to filter data based on other table results

SELECT column1, column2

FROM table1

WHERE column1 IN (

SELECT column1

FROM table2

WHERE condition

);

CTE

Common Table Expression

Is it so common?

- Temporary named result set that exists only during query execution.
- Makes complex queries readable and reusable

```
WITH cte_name AS (
    SELECT column1, column2
    FROM table_name
    WHERE condition
)
SELECT *
FROM cte_name;
```

Views

Views

Hit Save on a Query

- Generally, it is a virtual table based on a SQL query.
- It usually stores query logic and not the data.
- It helps in security, simplification, and reusability

CREATE VIEW view_name AS

SELECT column1, column2

FROM table_name

WHERE condition;