

# 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;*