VIEW, WITH(CTE)

**View**

In SQL, a view is a virtual table based on the result-set of an SQL statement. A view contains rows and columns, just like a real table. The fields in a view are fields from one or more real tables in the database.

CREATE VIEW view\_name AS

SELECT column1, column2.....

FROM table\_name

**Example**

CREATE VIEW DetailsView AS

SELECT NAME, ADDRESS

FROM Marks<60

**WITH**

The common table expression (CTE) is a powerful construct in SQL that helps simplify a query. CTEs work as virtual tables (with records and columns), created during the execution of a query, used by the query, and eliminated after query execution.

WITH my\_cte AS (

  SELECT a,b,c

  FROM T1

)

SELECT a,c

FROM my\_cte

WHERE ....

**EXAMPLE**

**WITH** customers\_in\_NewYork

**AS** (**SELECT** \* **FROM** customer **WHERE** state = 'New York')

**SELECT** c\_name, email, state **FROM** customers\_in\_NewYork;

WHERE S\_ID < 5;ondition;