What is CTE

The common table expression CTE in SQL server provides a temporary result set. You can refer to it with in a SQL Select, SQL insert, SQL delete or SQL update

The temporary result set helps the developers write complex and long queries involving many joins, aggregation, and data filtering. Usually, developers use subqueries for writing T-SQL codes, and SQL server stores these CTE in memory temporally

Until the query execution finishes. Once the query is finished, it is removed from memory.

Syntax:

WITH expression\_name ([col\_name],[col\_name]) AS

(CTE-definition)

SQL\_statement;

1.Expression\_name: any name you can give name(CTE-name)

2.list of comma-separated columns. the number of columns must be the same as the number of columns defined in the CTE-definition

3.Use the AS keyword after the expression name or column list if the list is specified

4.Refer to the common table expression in a query such as SELECT, INSERT, UPDATE, DELETE or MERGE

WITH employee-table ([id], [name], [gender]) AS

(SELECT [department-id], [name], [gender] )

SELECT \* FROM employee-table WHERE name LIKE ‘a%’

Ex: