

CROSS APPLY and OUTER APPLY Commands

APPLY vs JOIN

Need for APPLY exists when the following expression types exist on right side:

- A table-valued function
- A correlated sub query

CROSS APPLY Command

- Is semantically equivalent to INNER JOIN

CROSS APPLY Operation

- Left table expression is evaluated first and then right table expression is evaluated against each row of the left table expression
- returns only those rows from left table expression if it matches with right table expression
- Final result-set contains all selected columns from left table expression followed by all columns of right table expression

OUTER APPLY

- Is semantically equivalent to LEFT OUTER JOIN
- Returns all rows from left table expression
irrespective of its match with right table expression