NESTED LOOPS pseudo-code (high-level, simplified perspective)

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NESTED LOOPS
 CHILD_ROW_SOURCE_1 ← driving row source (or "outer" row source)
                                                                            alias: r_1 columns: (c_1, c_2, \dots, c_n)
 CHILD_ROW_SOURCE_2 ← inner row source (or "inner" row source)
                                                                             alias: r_2 columns: (c_1, c_2, \dots, c_m)
with join conditions defined on columns (c_{h_1}, c_{h_2}, ..., c_{h_n}) of r_1, and (c_{i_1}, c_{i_2}, ..., c_{i_n}) of r_2
Start CHILD_ROW_SOURCE_1
For each row r_1 = (c_1, c_2, ..., c_n) from CHILD_ROW_SOURCE_1 Loop -- outer loop
     Start CHILD_ROW_SOURCE_2, given (r_1, c_{h_1}, r_1, c_{h_2}, ..., r_1, c_{h_n})
     /*
       CHILD_ROW_SOURCE_2 uses the values of columns from the
       current row r_1 in join access/filter conditions in order
       to find all rows r_2 matching r_1
     For each row r_2 = (c_1, c_2, ..., c_m) from CHILD_ROW_SOURCE_2 Loop -- inner loop
           Rows from CHILD_ROW_SOURCE_2 are joined to the
           current row from CHILD_ROW_SOURCE_1
          Yield the combined row rj = (r_1, c_1, \dots, r_1, c_n, r_2, c_1, \dots, r_2, c_m) to the parent operation (*)
     End Loop
End loop
                                                                                  (*) Actually, only projected columns
                                                                                  are passed to the parent operation
```

Key points:

- CHILD_ROW_SOURCE_1 is started once per start of its parent
- CHILD ROW SOURCE 2 is started as many times as CHILD ROW SOURCE 1 supplies a row to be joined with
- CHILD_ROW_SOURCE_2 uses join columns from the "outer row" as input
- Join access/filter conditions are processed by CHILD ROW SOURCE 2