```
Вход 1
SELECT LastName, FirstName
FROM Person.Person
WHERE BusinessEntityID IN
(SELECT BusinessEntityID
FROM HumanResources.Employee
WHERE BusinessEntityID IN
(SELECT BusinessEntityID
FROM Sales. Sales Person)
);
Выход 1
RootQueryNode(
  queries=[
    QueryNode(
      query_statements=[
        FactoredStatementNode(
          select_parts=[
            SelectNode(
              columns=[
                ExprNode(database_name=None, table_name=None, column_name='LastName',
select stmt=None),
                ExprNode(database_name=None, table_name=None, column_name='FirstName',
select_stmt=None),
              ],
              tables=[Table_or_subquery(table_name='Person', schema_name='Person', DOT='.',
table_alias=None, K_INDEXED=None, K_BY=None, index_name=None, K_NOT=None, K_AS=None,
table_function_name=None, OPEN_PAR=None, CLOSE_PAR=None, expr=[], COMMA=[],
table_or_subquery=[], join_clause=None, select_stmt=None)],
              where=ExprNode(
                database_name=None,
                table_name=None,
                column_name=None,
                select_stmt=[
                  Select_or_values(
                    K_SELECT='SELECT',
                    result_column=[ExprNode(database_name=None, table_name=None,
column_name='BusinessEntityID', select_stmt=None)],
                    COMMA=[],
```

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K_FROM='FROM',
                   K_WHERE='WHERE',
                   expr=[
                     ExprNode(
                       database_name=None,
                       table_name=None,
                       column_name=None,
                       select_stmt=[
                         Select_or_values(
                           K_SELECT='SELECT',
                           result_column=[ExprNode(database_name=None, table_name=None,
column_name='BusinessEntityID', select_stmt=None)],
                           COMMA=[],
                           K_FROM='FROM',
                           K_WHERE=None,
                           expr=[],
                           K_GROUP=None,
                           K_BY=None,
                           K_DISTINCT=None,
                           K_ALL=None,
                           table_or_subquery=[Table_or_subquery(table_name='SalesPerson',
schema_name='Sales', DOT='.', table_alias=None, K_INDEXED=None, K_BY=None, index_name=None,
K_NOT=None, K_AS=None, table_function_name=None, OPEN_PAR=None, CLOSE_PAR=None, expr=[],
COMMA=[], table_or_subquery=[], join_clause=None, select_stmt=None)],
                           join_clause=None,
                           K_HAVING=None,
                           K_VALUES=None,
                           OPEN_PAR=[],
                           CLOSE PAR=[],
                         ),
                       ],
                     ),
                   ],
                   K_GROUP=None,
```

```
K_BY=None,
                    K_DISTINCT=None,
                    K_ALL=None,
                    table_or_subquery=[Table_or_subquery(table_name='Employee',
schema_name='HumanResources', DOT='.', table_alias=None, K_INDEXED=None, K_BY=None,
index_name=None, K_NOT=None, K_AS=None, table_function_name=None, OPEN_PAR=None,
CLOSE_PAR=None, expr=[], COMMA=[], table_or_subquery=[], join_clause=None, select_stmt=None)],
                   join_clause=None,
                    K_HAVING=None,
                    K_VALUES=None,
                    OPEN_PAR=[],
                   CLOSE_PAR=[],
                 ),
                ],
              ),
              group_by=None,
              having=None,
           ),
         ],
         operators=None,
        ),
     ],
   ),
 ],
)
Вход 2
SELECT *
FROM (
SELECT Author, stock
FROM books
GROUP BY author
) AS results
WHERE author="Robin Sharma";
Выход 2
RootQueryNode(
```

```
queries=[
   QueryNode(
     query_statements=[
        FactoredStatementNode(
         select_parts=[
           SelectNode(
             columns=[
                ۱*۱,
             ],
             tables=[
               Table_or_subquery(
                 table_name=None,
                 schema_name=None,
                 DOT=None,
                 table_alias='results',
                 K_INDEXED=None,
                 K_BY=None,
                 index_name=None,
                 K_NOT=None,
                 K_AS='AS',
                 table_function_name=None,
                 OPEN_PAR='(',
                 CLOSE_PAR=')',
                 expr=[],
                 COMMA=[],
                 table_or_subquery=[],
                 join_clause=None,
                 select_stmt=[
                   Select_or_values(
                      K_SELECT='SELECT',
                      result_column=[
                        ExprNode(database_name=None, table_name=None,
column_name='Author', select_stmt=None),
```

```
ExprNode(database_name=None, table_name=None, column_name='stock',
select_stmt=None),
                     ],
                     COMMA=[
                     ],
                     K_FROM='FROM',
                     K_WHERE=None,
                     expr=[ExprNode(database_name=None, table_name=None,
column_name='author', select_stmt=None)],
                     K_GROUP='GROUP',
                     K_BY='BY',
                     K_DISTINCT=None,
                     K_ALL=None,
                     table_or_subquery=[
                       'books',
                     ],
                     join_clause=None,
                     K_HAVING=None,
                     K_VALUES=None,
                     OPEN_PAR=[],
                     CLOSE_PAR=[],
                   ),
                 ],
               ),
             ],
             where=ExprNode(database_name=None, table_name=None, column_name=None,
select_stmt=None),
             group_by=None,
             having=None,
           ),
         ],
         operators=None,
```

```
),
      ],
    ),
  ],
Вход 3
SELECT members.firstname \| \ ' \ ' \ \| members.lastname
AS "Full Name"
FROM borrowings
INNER JOIN members
ON members.memberid=borrowings.memberid
INNER JOIN books
ON books.bookid=borrowings.bookid
WHERE borrowings.bookid IN (SELECT bookid
FROM books)
GROUP BY members.firstname, members.lastname;
Выход 3
RootQueryNode(
  queries=[
    QueryNode(
      query_statements=[
        FactoredStatementNode(
          select_parts=[
            SelectNode(
              columns=[
                Result_column(
                  STAR=None,
                  table_name=None,
                  DOT=None,
                  expr=ExprNode(database_name=None, table_name=None, column_name=None,
select_stmt=None),
                  column_alias="Full Name",
                  K_AS='AS',
                ),
              ],
              tables=None,
```

```
where=ExprNode(
               database_name=None,
               table_name=None,
               column_name=None,
               select_stmt=[
                 Select_or_values(
                   K_SELECT='SELECT',
                   result_column=[ExprNode(database_name=None, table_name=None,
column_name='bookid', select_stmt=None)],
                   COMMA=[],
                   K_FROM='FROM',
                   K_WHERE=None,
                   expr=[],
                   K_GROUP=None,
                   K_BY=None,
                   K_DISTINCT=None,
                   K_ALL=None,
                   table_or_subquery=[
                     'books',
                   ],
                   join_clause=None,
                   K_HAVING=None,
                   K_VALUES=None,
                   OPEN_PAR=[],
                   CLOSE_PAR=[],
                 ),
               ],
             ),
             group_by=[
               ExprNode(database_name=None, table_name='members', column_name='firstname',
select_stmt=None),
               ExprNode(database_name=None, table_name='members', column_name='lastname',
select_stmt=None),
```