SUBQUERY

Subquery is a query within a query. These subqueries can reside in the WHERE clause, the FROM clause, or the SELECT clause.

Syntax

SYNTAX where subquery is in WHERE

SELECT "column_name1"
FROM "table_name1"
WHERE "column_name2" [Comparison Operator]
(SELECT "column_name3"
FROM "table_name2"
WHERE "condition");

SUBQUERY

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Example

Subquery in WHERE

SELECT * FROM sales
WHERE customer_ID IN
        (SELECT DISTINCT customer_id
         FROM customer WHERE age >60);

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Example

Subquery in FROM

```
SELECT
        a.product_id ,
        a.product_name ,
        a.category,
        b.quantity
FROM product AS a
LEFT JOIN (SELECT product_id,
                  SUM(quantity) AS quantity
           FROM sales GROUP BY product_id) AS b
ON a.product_id = b.product_id
ORDER BY b.quantity desc;
```

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SUBQUERY

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Example

```
SELECT    customer_id,
          order_line,
          (SELECT customer_name
                  FROM customer
                  WHERE sales.customer_id = customer.customer_id)
FROM sales
ORDER BY customer_id;
```

SUBQUERY

Subquery is a query within a query. These subqueries can reside in the WHERE clause, the FROM clause, or the SELECT clause.

RULES

There are a few rules that subqueries must follow –
- Subqueries must be enclosed within parentheses.
- A subquery can have only one column in the SELECT clause, unless multiple columns are in the main query for the subquery to compare its selected columns.
- An ORDER BY command cannot be used in a subquery, although the main query can use an ORDER BY. The GROUP BY command can be used to perform the same function as the ORDER BY in a subquery.
- Subqueries that return more than one row can only be used with multiple value operators such as the IN operator.
- The SELECT list cannot include any references to values that evaluate to a BLOB, ARRAY, CLOB, or NCLOB.
- A subquery cannot be immediately enclosed in a set function.
- The BETWEEN operator cannot be used with a subquery. However, the BETWEEN operator can be used within the subquery.

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