### TECH

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Word		What is a subquery?  A subquery is a query within a query. In Oracle, you can create subqueries within your SQL statements. These subqueries can reside in the WHERE clause, the FROM clause, or the SELECT clause.  WHERE clause  Most often, the subquery will be found in the WHERE clause. These subqueries are also called nested subqueries.  For example:		
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## FROM clause

A subquery can also be found in the FROM clause. These are called inline views.

Oracle allows up to 255 levels of subqueries in the WHERE clause.

#### For example:

```
select suppliers.name, subquery1.total_amt
from suppliers,
  (select supplier_id, Sum(orders.amount) as total_amt
  from orders
  group by supplier_id) subquery1,
where subquery1.supplier_id = suppliers.supplier_id;
```

In this example, we've created a subquery in the FROM clause as follows:

```
(select supplier_id, Sum(orders.amount) as total_amt
from orders
group by supplier_id) subquery1
```

This subquery has been aliased with the name *subquery1*. This will be the name used to reference this subquery or any of its fields.

#### Limitations

Oracle allows an unlimited number of subqueries in the FROM clause.

#### **SELECT clause**

A subquery can also be found in the SELECT clause.

For example:

```
select tbls.owner, tbls.table_name,
  (select count(column_name) as total_columns
  from all_tab_columns cols
  where cols.owner = tbls.owner
  and cols.table_name = tbls.table_name) subquery2
from all_tables tbls;
```

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In this example, we've created a subquery in the SELECT clause as follows:

```
(select count(column_name) as total_columns
from all_tab_columns cols
where cols.owner = tbls.owner
and cols.table_name = tbls.table_name) subquery2
```

The subquery has been aliased with the name *subquery2*. This will be the name used to reference this subquery or any of its fields.

The trick to placing a subquery in the select clause is that the subquery must return a single value. This is why an aggregate function such as **SUM**, **COUNT**, **MIN**, or **MAX** is commonly used in the subquery.

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