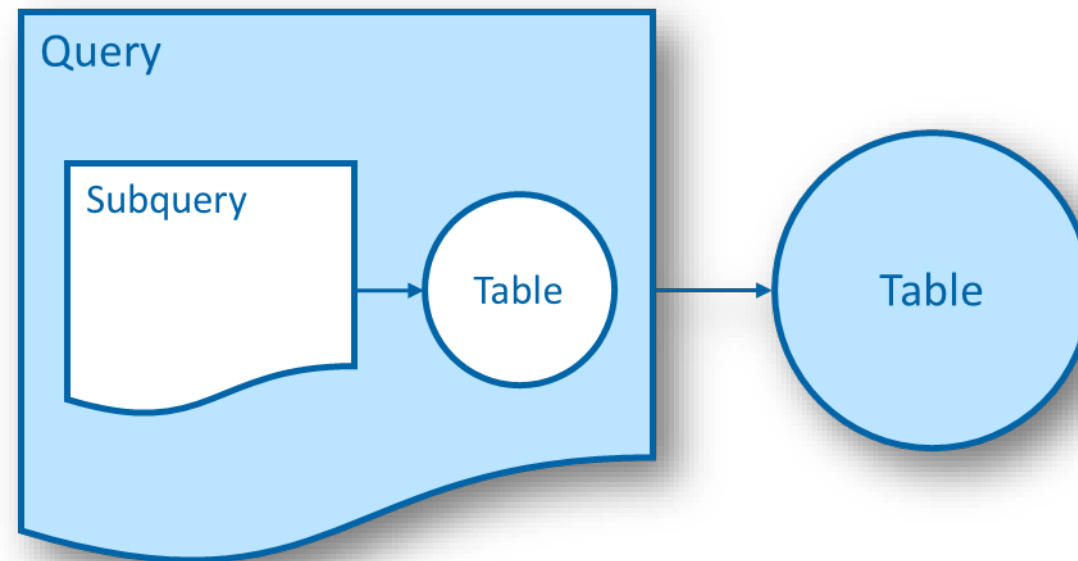
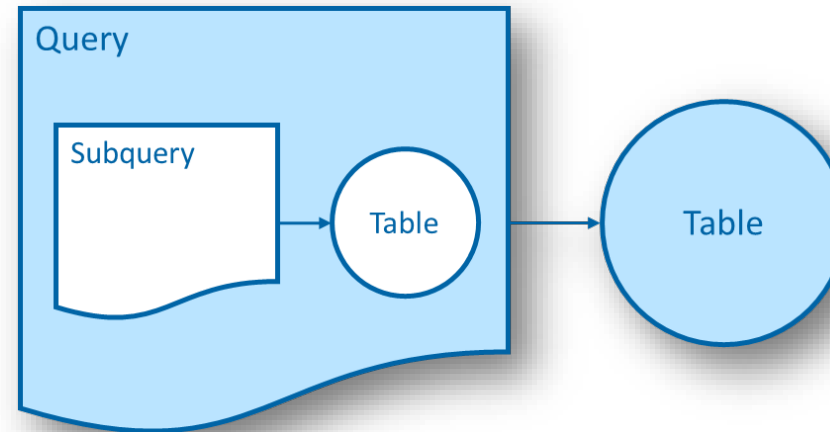


NESTED QUERIES



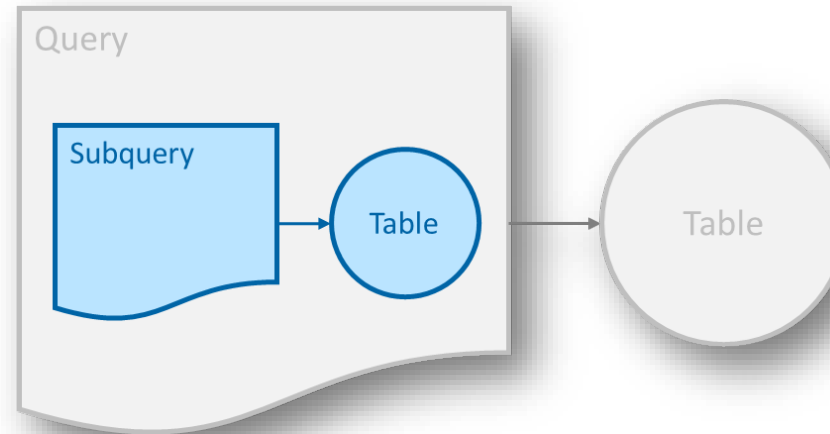
Content

- Subqueries
- Examples



Content

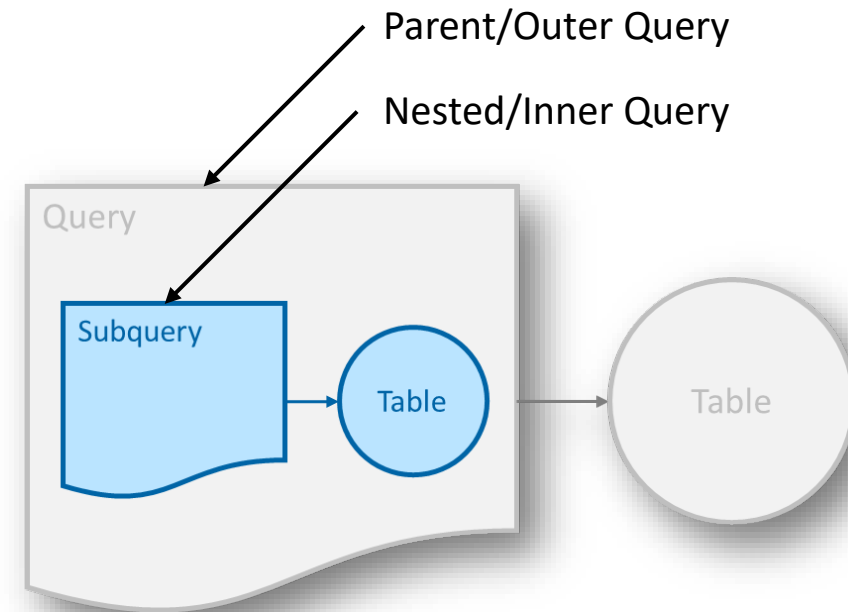
- Subqueries
- Examples



Subqueries

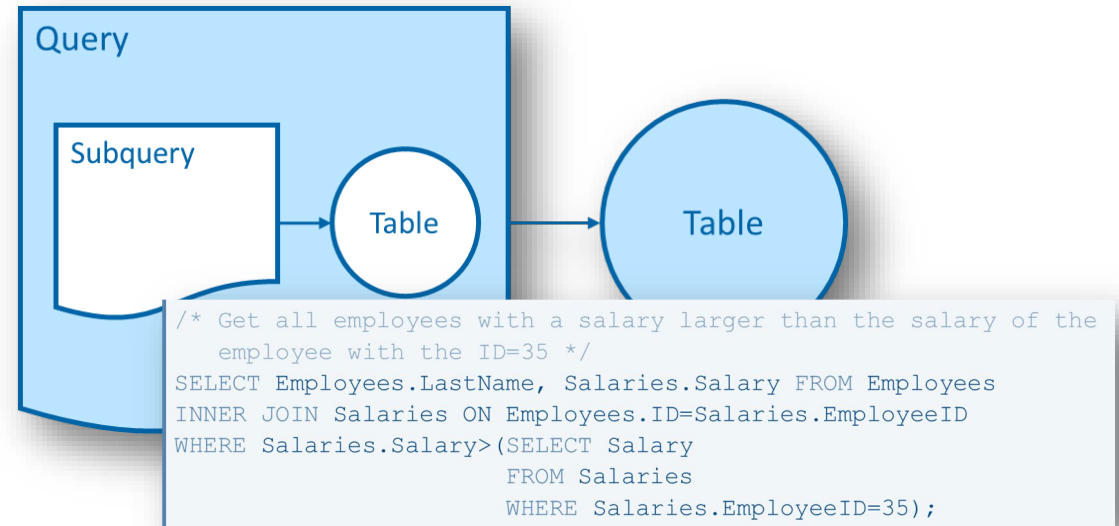
A subquery is a SQL query nested inside outer query.

- The subquery can be nested inside a SELECT, INSERT, UPDATE, or DELETE statement or inside another subquery
- A subquery is usually added within the WHERE clause of another SQL SELECT statement.
- The subquery executes once before the main outer query executes
- The outer query uses the resulting table of the subquery



Content

- Subqueries
- Examples



Examples

Using a subquery in the WHERE clause

Syntax

```
SELECT attribute1, attribute2, ...  
FROM tablename  
WHERE condition including (SELECT ...);
```

Example

```
/* Get all employees with a salary larger than the salary of the  
   employee with the ID=35 */  
SELECT Employees.LastName, Salaries.Salary FROM Employees  
INNER JOIN Salaries ON Employees.ID=Salaries.EmployeeID  
WHERE Salaries.Salary>(SELECT Salary  
                        FROM Salaries  
                        WHERE Salaries.EmployeeID=35);
```

no semicolon

Examples

Using a subquery in the FROM clause

Syntax

```
SELECT attribute1, attribute2, ...  
FROM (SELECT ...) AS alias  
WHERE condition;
```

necessary

Example

```
/* Get all employees younger than 50 years from the  
   engineering department */  
SELECT LastName  
FROM (SELECT LastName, Age  
      FROM Employees  
      WHERE DepartmentID=3) AS EngineeringEmployees  
WHERE Age<50;
```

Sequence

