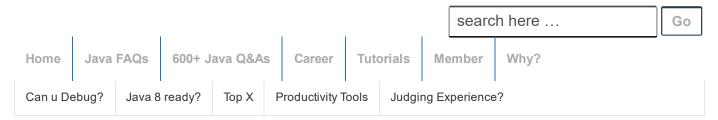
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Subquery interview questions and answers

SQL Subquery interview questions and answers

Posted on April 10, 2015 by Arulkumaran Kumaraswamipillai



Q. What is a subquery?

A. Subquery or Inner query or Nested query is a query in a query. A subquery is usually added in the WHERE clause of the sql statement. A subquery can be nested inside a **SELECT**, **INSERT**, **UPDATE**, or **DELETE** statement or inside another subquery. Subqueries are an alternate way of returning data from multiple tables.

Q. Can you create a subquery in a **From** clause?

A. Yes. Subqueries can be used in **From**, **Where** and **Having** clauses. For example, in Sybase

```
1 select *
2 from
3 (
```

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```
4 select 'A' as colVal
5 union
6 select 'B' as colVal
7 ) data
8
```

Returns:

```
1 colVal
2 -----
3 A
4 B
5
```

Joining virtual tables is one of the most powerful feature of subqueries. Virtual in this context means the result set you are joining is built on the fly. Here is a **more advanced example**:

```
declare @clientId varchar(30),
2
              @reportDate date,
3
4
     set nocount on
5
6
     select reportId
                         from
7
              Report_Status s,
              ReportKey k,
ReportGroupKey gk,
8
9
10
11
               --subquery in from clause
12
              (select max(s.createddttm) as maxdate
13
                  Report_Status
14
                  ReportKey k1,
15
                  ReportGroupKey gk
16
                        k1.InactiveFlag = 'N'
               where
17
                      gk.InactiveFlag = 'N'
                 and
18
                      gk.KeyId = k1.Id
                 and
19
                      gk.Id = s.GroupKeyId
                 and
20
               group by k1.clientId
21
                maxdates
22
23
         where k.InactiveFlag = 'N'
24
          and gk.InactiveFlag = 'N'
25
               \bar{g}k.KeyId = k.Id
          and
26
               qk.Id = s.GroupKeyId
          and s.CreatedDtTm = maxdates.maxdate
27
28
          and k.ClientId = @clientId
29
          and maxdates.ClientId = k.ClientId
30
          and k.reportDate = @reportDate
31
32
```

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Q.What is a correlated subquery?

A. A query is called correlated subquery when both the inner query and the outer query are interdependent. For every row processed by the inner query, the outer query is processed as well. The inner query depends on the outer query before it can be processed.

```
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```

```
1
2 SELECT outer.product_name FROM product outer  
3 WHERE outer.product_id = (SELECT inner.product_i
4 WHERE outer.product_i
5
```

If a subquery is not dependent on the outer query it is called a **non-correlated subquery**.

Q. What are the advantages and disadvantages of using a subquery?

Α.

Advantages:

- Subqueries allow you to use the results of another query in the outer query.
- Subqueries in some complex SQL queries can simplify coding and improve maintainability by breaking down the complex query into a series of logical steps.
- In some cases, subqueries are easier to understand than complex joins and unions.

Disadvantages:

 When a subquery is used, the query optimizer of the database server may have to perform additional steps like sorting the results, etc. Hence, in some cases subqueries can be less efficient than using joins. So, favor joins to subqueries.

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