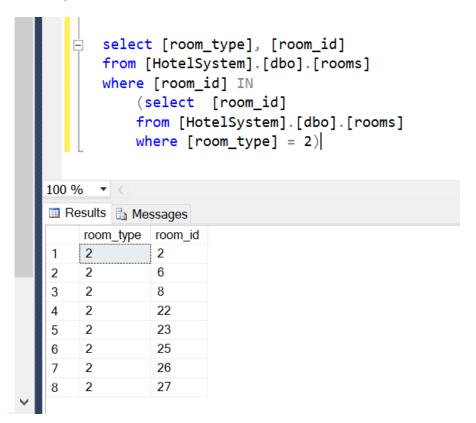
Assignment 10: SQL Subqueries

Subquery Fundamentals:

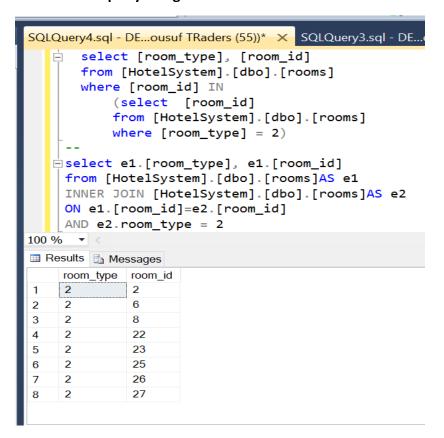
A subquery is also called an inner query or inner select, while the statement containing a subquery is also called an outer query or outer select. A subquery is a query that is nested inside a SELECT, INSERT, UPDATE, or DELETE statement, or inside another subquery. A subquery can be nested inside the WHERE or HAVING clause of an outer SELECT, INSERT, UPDATE, or DELETE statement, or inside another subquery. Up to 32 levels of nesting is possible, although the limit varies based on available memory and the complexity of other expressions in the query.

If a table appears only in a subquery and not in the outer query, then columns from that table cannot be included in the output (the select list of the outer query).

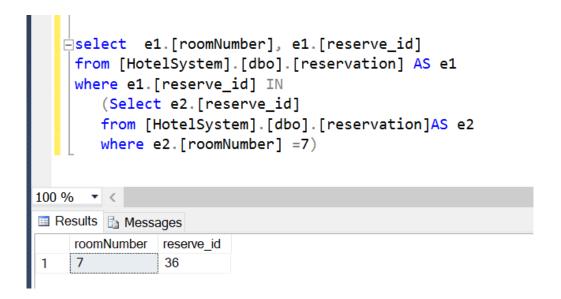
 returning Room Number corresponding to their room type (Self adjoining) using SUB-QUERY



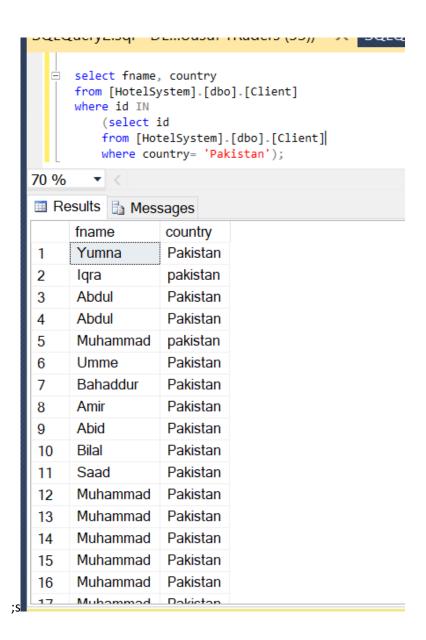
Same query using INNER JOIN



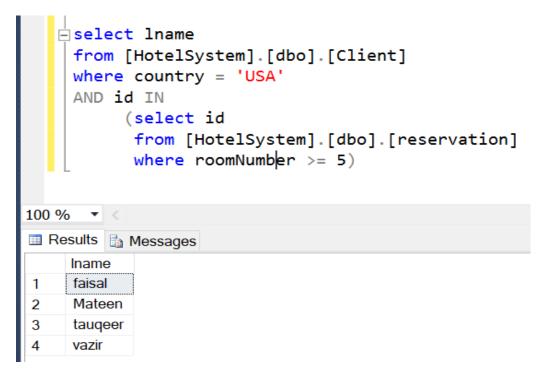
Sub-query with aliases and using condition



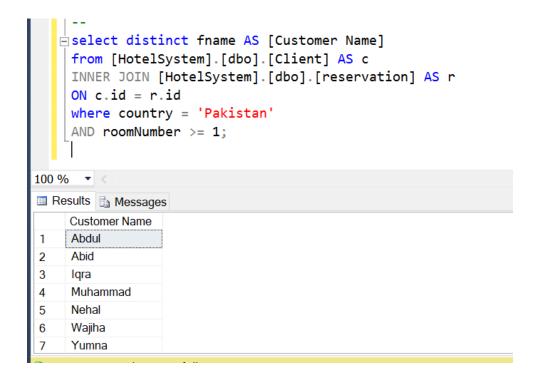
• Returning name of customer who stay in Pakistan's branch



 Using Multiple-tables (client and reservation) return name from client table from USA branch and from reservation table using condition.



Using INNER JOIN with Aliases



Using nested sub-query of select and from

```
iselect fname AS Name, country
     from [HotelSystem].[dbo].[Client]
     where id NOT IN
        (select id
         from [HotelSystem].[dbo].[reservation]
         where country = 'Pakistan'
         OR country = 'Turkey'
         OR country = 'India')
100 % ▼ <
Results  Messages
             country
     Name
     Yumna
             Pakistan
1
    wajiha
            karachi
2
3
            Turkey
    hamza
    warisha
             canada
5
     Sidra
             usa
     Sana
6
             usa
     Mahnoor Germany
7
Query executed successfully.
```

using room category table for returning average price + using 3 nested SELECT query

