

## Part 62 – What to choose for performance - SubQueries or Joins?

Venkat

PRAGIM Technologies

[kudvenkat@gmail.com](mailto:kudvenkat@gmail.com)

<http://csharp-video-tutorials.blogspot.com>

PRAGIM Technologies | [www.pragimtech.com](http://www.pragimtech.com) | 9900113931

# In this session we will learn

- What to choose for performance - SubQueries or Joins?

## SQL Server Video Series

Part 59 - Subqueries

Part 60 - Correlated subquery

Part 61 - Creating a large table with random data for performance testing

Link to Dot Net Basics, ASP.NET, C#, ADO.NET and SQL Server video series

<http://www.youtube.com/user/kudvenkat/videos?view=1>

PRAGIM Technologies | 9900113931 | [www.pragimtech.com](http://www.pragimtech.com) | [www.facebook.com/pragimtech](http://www.facebook.com/pragimtech)

<http://csharp-video-tutorials.blogspot.com>

# Performance - SubQueries or Joins

**According to MSDN, in most cases,** there is usually no performance difference between queries that uses sub-queries and equivalent queries using joins.

**According to MSDN, in some cases where existence must be checked,** a join produces better performance. Otherwise, the nested query must be processed for each result of the outer query. In such cases, a join approach would yield better results.

**In general joins work faster than sub-queries,** but in reality it all depends on the execution plan that is generated by SQL Server. It does not matter how we have written the query, SQL Server will always transform it on an execution plan. If it is "smart" enough to generate the same plan from both queries, you will get the same result.

**I would say, rather than going by theory, turn on client statistics and execution plan to see the performance of each option, and then make a decision.** In a later video session we will discuss about client statistics and execution plans in detail.

# Additional Resources

- PRAGIM Home Page:

- [www.PragimTech.com](http://www.PragimTech.com)

- Resources:

- ASP.NET Interview Questions
  - [www.VenkatASPInterview.Blogspot.com](http://www.VenkatASPInterview.Blogspot.com)
  - C# Interview Questions
  - [www.VenkatCSharpInterview.Blogspot.com](http://www.VenkatCSharpInterview.Blogspot.com)
  - SQL Server Interview Questions
  - [www.venkatsqlinterview.Blogspot.com](http://www.venkatsqlinterview.Blogspot.com)