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Part 38 – Adv. & Dis-adv. of Indexes

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Part 38 – Adv. & Dis-adv. of Indexes

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In this session we will learn

- Advantages and disadvantages of Indexes
- The types of queries that can benefit from indexes
- Covering Queries

Prerequisite:
Part 35 - Index basics
Part 36 - Clustered and Non-clustered Indexes
Part 37 - Unique and Non-Unique Indexes

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Advantages of Indexes

In Part 35, we have learnt that, Indexes are used by queries to find data quickly.

ID	FirstName	LastName	Salary	Gender	City	Salary	Row Address
1	Mike	Sandoz	4500	Male	New York	2500	Row Address
2	Sara	Meino	6500	Female	London	3500	Row Address
3	John	Baker	2500	Male	Sydney	4500	Row Address
4	Pam	Grove	3500	Female	Toronto	6500	Row Address
5	Jones	Mitch	7500	Male	London	2500	Row Address

```
--SELECT statement with a WHERE clause
Select * from tblEmployee where Salary < 4000 and Salary >= 5000

--DELETE and UPDATE statements
Delete from tblEmployee where Salary = 1000
Update tblEmployee Set Salary = 3000 where Salary = 7500

--ORDER BY ASCENDING
Select * from tblEmployee order by Salary

--ORDER BY DESCENDING
Select * from tblEmployee order by Salary Desc

--GROUP BY
Select Salary, COUNT(Salary) as Total
from tblEmployee
Group by Salary
```

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Disadvantages of Indexes

Additional Disk Space: Clustered Index does not, require any additional storage. Every Non-Clustered Index requires additional space as it is stored separately from the table. The amount of space required will depend on the size of the table, and the number and types of columns used in the index.

Insert Update and Delete statements can become slow: When DML (Data Manipulation Language) statements (INSERT, UPDATE, DELETE) modifies data in a table, the data in all the indexes also needs to be updated. Indexes can help, to search and locate the rows, that we want to delete, but too many indexes to update can actually hurt the performance of data modifications.

What is a covering query- If all the columns that you have requested in the SELECT clause of query, are present in the index, then there is no need to lookup in the table again. The requested columns data can simply be returned from the index.

A clustered index, always covers a query, since it contains all of the data in a table. A composite index is an index on two or more columns. Both clustered and non-clustered indexes can be composite indexes. To a certain extent, a composite index, can cover a query.

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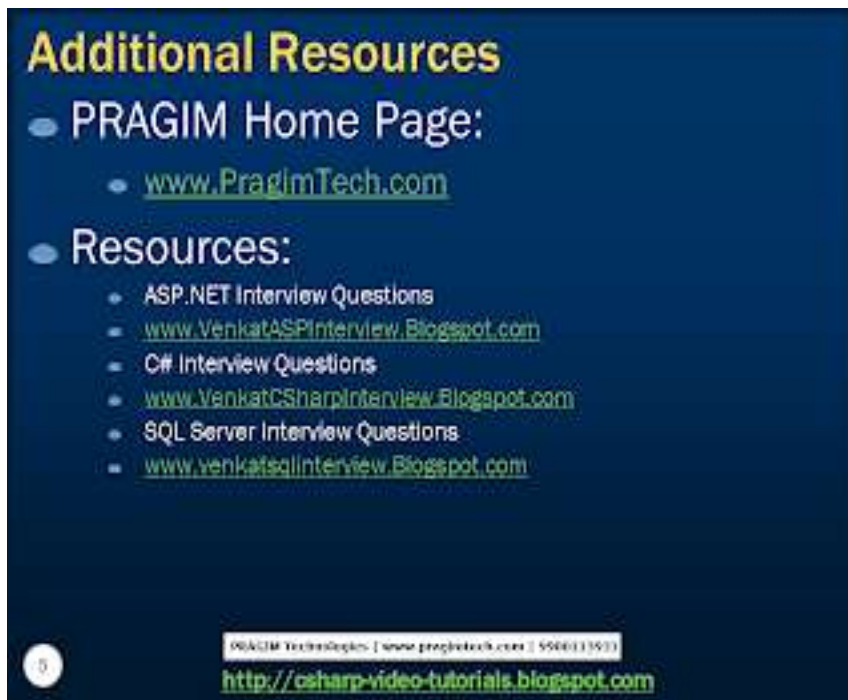
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