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**Article:** Index Rebuild VS. Reorganize

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# **SQL Server – Difference Between Index Rebuild and Index Reorganize Explained with T-SQL Script**

**Index Rebuild :** This process drops the existing Index and recreates the index.

USE AdventureWorks;   
GO   
ALTER INDEX ALL ON Production.Product REBUILD   
GO

**Index Reorganize :** This process physically reorganizes the leaf nodes of the index.

USE AdventureWorks;   
GO  
ALTER INDEX ALL ON Production.Product REORGANIZE   
GO

**Recommendation:** Index should be **rebuild** when index fragmentation is greater than 40%. Index should be reorganized when index fragmentation is between *10% to 40%*. **Index rebuilding** process uses more CPU and it locks the database resources.

**SQL Server** **Developer** version and **Enterprise** version has option **ONLINE**, which can be turned on when Index is *rebuilt*. **ONLINE** option will keep index available during the rebuilding.