SQL SERVER – DIFFERENCE BETWEEN INDEX REBUILD AND INDEX REORGANIZE EXPLAINED WITH T-SQL SCRIPT

Index Rebuild : This process drops the existing Index and <u>recreates the index</u>.

```
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 <u>locks the database resources</u>.

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

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