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The *reorg rebuild* command includes an *online* parameter that lets you reorganize data and perform maintenance without taking the data offline.

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For example, to rebuild the indexes on the titles table and keep the data online, enter:

```
reorg rebuild titles with online
```



reorg rebuild ... online includes three phases:

- A blocking phase that takes exclusive table locks for a short duration to set up new metadata.
- A nonblocking phase that reorganizes the data and synchronizes the concurrent activity.
- A blocking phase that reacquires exclusive table locks to synchronize the remaining concurrent activity and install the new metadata.

SAP ASE recommends that you run *reorg rebuild ... online* when the table's transaction load is relatively low.

Running *reorg rebuild ... online* takes place in a single transaction. Recovering the work performed by the online parameter is similar to recovering the work performed without the online parameter. Consider these issues when rolling back work performed with the online parameter:

- Runtime rollback of the utility deallocates the pages allocated by the online parameter.
- Crash recovery clears the allocation status of the extents allocated by the online parameter, and makes them available for other tasks.
- In a high availability environment during node-failover recovery, if *reorg rebuild ... online* attempts to initiate a physical or logical lock, it waits for the recovery to complete before acquiring the lock.

reorg rebuild ... online includes these restrictions:

- Tables on which you run *reorg rebuild ... online* must have a unique index.
- All DMLs—that is, *select* (but not *select into*), *insert*, *update*, and *delete*—can operate on a table while *reorg rebuild ... online* is running. SAP ASE does not allow inserts that lead to page splits on tables with all-pages locking scheme while *reorg rebuild ... online* is running.
- You cannot run more than one instance of *reorg rebuild ... online* simultaneously on a table.
- *reorg rebuild ... online* does not materialize non-nullable nonmaterialized default columns.

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