



Serializable:
transactionally
consistent:
range locks

ISOLATION LEVELS IN SQL SERVER

most pessimistic

loves Ghost Stories
very pessimistic



Repeatable Read:
collects and keeps
locks as it goes.
"Phantom Rows" can be
inserted between
locked rows.



...I'VE GOT A BAAAD
FEELING
ABOUT
THIS...
UMMM

still a bit
pessimistic

Read Uncommitted
may miss data,
read it twice, or
fail with scan
errors.
Beware!!



It's all
good.
Maybe?

Read
Committed
loves each
row, but
only as it
goes by.



BE
MINE
Phantom rows may
be inserted. Rows
may be updated or
deleted: non-
repeatable
reads.

All
queries use schema
locks, and may
blocking in some
situations.

stability
still cause
situations.

Read committed Snapshot:
Read committed
Statement level consistency.
with awesome!



I KEEP
COPIES
SO I
DON'T HAVE
TO WORRY!

Snapshot
Isolation:
Transactional
Consistency
by versioning.
Lots of
TempDb!

<http://BrentOzar.com/Community>



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