

ROW VERSION
000.000.000.000
Major.Minor.Revision.Build

999.999.999.999

Varchar(20):DataType

CACHE		
TABLE 1	TABLE 2	TABLE 3

Load from Database
ISOLATION LEVEL
SNAPSHOT
SYNC_READING

Acquire
Cache.Tanle
IsLock using Select Empty Row
ISOLATION LEVEL
READ COMMITTED

Update Row Version
UpdateTable Version
on Update call

Notify Cache to Repopulate Table
(ASYNC,SYNC)
DEFAULT SYNC in case it is needed
right away

Update
Database
ISOLATION LEVEL
READ COMMITTED

INSERT
ISOLATION LEVEL
READ COMMITTED

DELETE
ISOLATION LEVEL
READ COMMITTED

Acquire
Table Lock
For DML
ISOLATION LEVEL
READ COMMITTED

PESSIMISTIC
CONCURRENCY

TABLE ACCOUNT
ROW1: 50 \$

Notify Table
Changed
If Subscribed
SYNC

Read (1st)
ISOLATION LEVEL
SNAPSHOT

PROC A

Subtract 50 (4th)
With Initial (50)

Read (2nd)
ISOLATION LEVEL
SNAPSHOT

PROC B

Add 50 (3rd)
With Initial (50)

DML UPDATE, INSERT, DELETE

OPTIMISTIC
CONCURRENCY

UPDATE
-Read Cach.Table.IsLocked
-Acquire Table Lock
-FetchRow From Cache
- Compare: rowVersioning
-RejectTransaction

DELETE
-Read Cache.Table.IsLocked
-Acquire Table Lock
- Accept Transaction

UPDATE
-Read Cach.Table.IsLocked
-Acquire Table Lock
-FetchRow From Cache
- Compare: rowVersioning
- Accept Transaction

CACHE TABLE
TableName (uQ), Version(50), TableFillQuery varchar(max) NULABLE, cacheBlobs(bit), BlobColumns varchar(250)
You can leave FillQuery Null if you want to Cache all Columns, else specify incase you have image column

TABLE VERSION
00000000.00000000.00000000.00000000 - 8 digits each
Major.Minor.Revision.Build

99999999.99999999.99999999.99999999

Varchar(50):DataType

Row version is for comparison, table version is for caching

Fetch Blob
From Cache