

SQL SERVER – ACID (Atomicity, Consistency, Isolation, Durability)

ACID (an acronym for Atomicity, Consistency Isolation, Durability) is a concept that Database Professionals generally look for when evaluating databases and application architectures. For a reliable database all these four attributes should be achieved.

Atomicity is an all-or-none proposition.

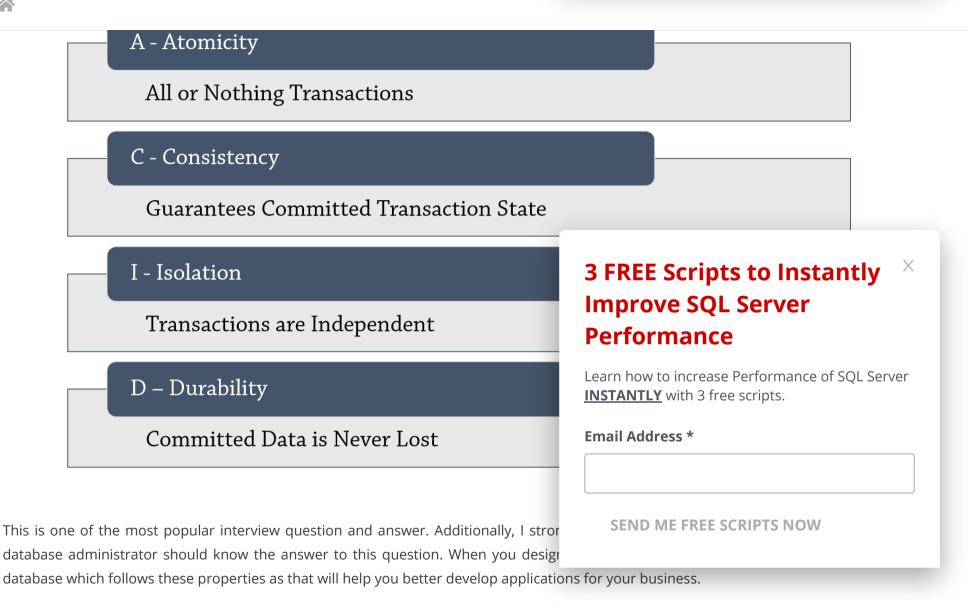
Consistency guarantees that a transaction never leaves your database in a half-finished state.

Isolation keeps transactions separated from each other until they're finished.

Durability guarantees that the database will keep track of pending changes in such a way that the server can recover from an abnormal termination.

Above four rules are very important for any developers dealing with databases.

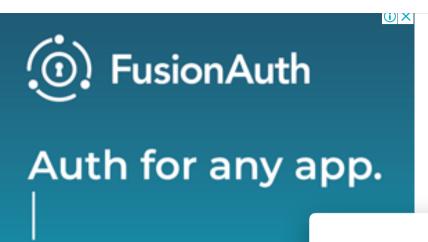




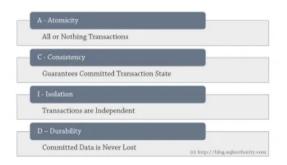
Andreas Reuter and Theo Härder created the acronym ACID in the year 1983 however lim Grav had already defined these properties in the

late 1970s. SQL Server, Oracle, MySQL, PostgreSQL are some of the databases which f





LEARN MORE



What is ACID Property in Database? - Interview Question of the Week #066 April 10, 2016

In "SQL Interview Questions and Answers"

SQL SERVER - Interview Questions Answers - Frequently Asked Question Day 2 of 31

Click here to get free chapters (PDF) i mailbox Please read the Introductory before continue reading interview que and answers. List of all the Inte Questions and Answers Series blogs 17

July 2, 2011 In "SQL"

3 FREE Scripts to Instantly Improve SQL Server Performance

Learn how to increase Performance of SQL Server **INSTANTLY** with 3 free scripts.

Email Address *

SEND ME FREE SCRIPTS NOW

SQL SERVER - Andy Defines Basic RDBMS: Isolation in Processes - Notes from the Field









Previous Post



SQL SERVER – FIX : Error : 3702 Cannot drop database because it is currently in use.

Next Post

SQLAuthority News – Microsoft SQL Server 2008 Community Technology Preview (November 2007) VHD



Related Posts

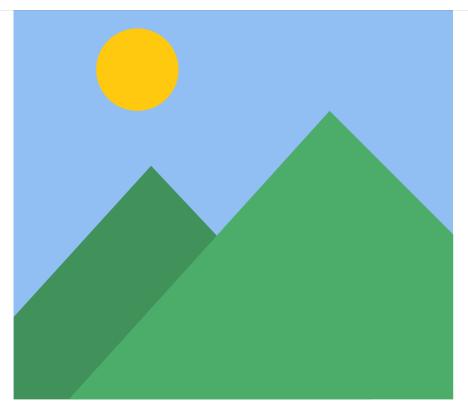
3 FREE Scripts to Instantly Improve SQL Server Performance

Learn how to increase Performance of SQL Server **INSTANTLY** with 3 free scripts.

Email Address *

SEND ME FREE SCRIPTS NOW





SQL SERVER – Find Collation of Database and Table Column Using T-SQL

December 16, 2008

3 FREE Scripts to Instantly Improve SQL Server Performance

Learn how to increase Performance of SQL Server **INSTANTLY** with 3 free scripts.

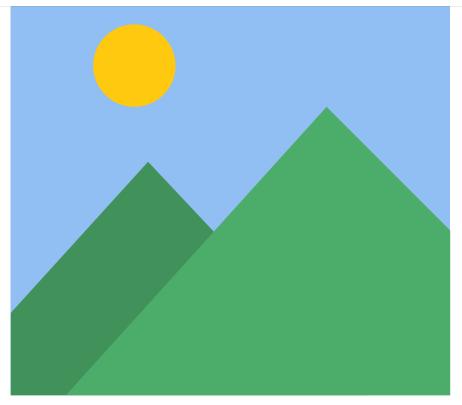
SQL SERVER Email Address *

Seconds #018

June 20, 2012

SEND ME FREE SCRIPTS NOW





SQLAuthority Author Visit – Ahmedabad SQL Server User Group Meeting – September 2008

September 22, 2008

71 Comments. Leave new



3 FREE Scripts to Instantly Improve SQL Server Performance

Learn how to increase Performance of SQL Server **INSTANTLY** with 3 free scripts.

Email Address *

SEND ME FREE SCRIPTS NOW



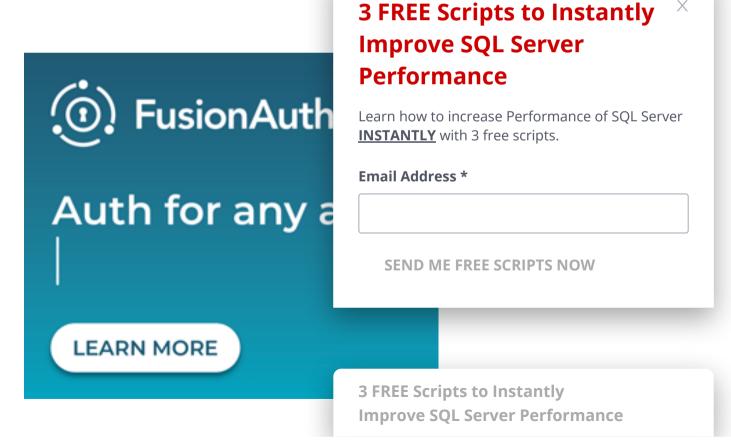
Isolation level that you use?

Reply



Atomicity.

Reply





Enter your comment here...

3 FREE Scripts to Instantly X Improve SQL Server Performance

Learn how to increase Performance of SQL Server **INSTANTLY** with 3 free scripts.

Email Address *

SEND ME FREE SCRIPTS NOW



3 FREE Scripts to Instantly Improve SQL Server Performance

^

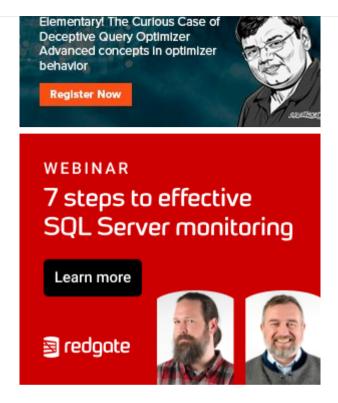
Learn how to increase Performance of SQL Server **INSTANTLY** with 3 free scripts.

Email Address *

SEND ME FREE SCRIPTS NOW









3 FREE Scripts to Instantly Improve SQL Server Performance

Learn how to increase Performance of SQL Server **INSTANTLY** with 3 free scripts.

Email Address *

SEND ME FREE SCRIPTS NOW





Pinal Dave is an SQL Server Performance Tuning Expert and independent consultant with of Science degree and numerous database certifications.

Pinal has authored 12 SQL Server database books and 37 Pluralsight courses. To freely s Pinal has also written more than 5,500 database tech articles on his blog at https://blog.sql.



3 FREE Scripts to Instantly Improve SQL Server Performance

Learn how to increase Performance of SQL Server **INSTANTLY** with 3 free scripts.

Email Address *

SEND ME FREE SCRIPTS NOW



Pinal is an experienced and dedicated professional with a deep commitment to flawless customer service. If you need help with any **SQL Server Performance Tuning Issues**, please feel free to reach out at **pinal@sqlauthority.com**.

Pinal is also a CrossFit Level 1 Trainer (CF-L1) and CrossFit Level 2 Trainer (CF-L2).

Nupur Dave is a social media enthusiast and an independent consultant. She primarily focuses on the database domain, helping clients build short and long term multi-channel campaigns to drive leads for their sales pipeline.

Exclusive Newsletter

SEND ME FREE SCRIPTS NOW

Consulting



3 FREE Scripts to Instantly Improve SQL Server Performance

Learn how to increase Performance of SQL Server **INSTANTLY** with 3 free scripts.

Email Address *

SEND ME FREE SCRIPTS NOW





Is your SQL Server running slow and you want to speed it up without sharing server credentials? In my Comprehensive Database Performance

Health Check, we can work together remotely and resolve your biggest performance trouk

Once you learn my business secrets, you will fix the majority of problems in the future.

3 FREE Scripts to Instantly Improve SQL Server Performance

Learn how to increase Performance of SQL Server **INSTANTLY** with 3 free scripts.

Email Address *

SEND ME FREE SCRIPTS NOW







Have you ever opened any PowerPoint deck when you face SQL Server Performance Tuning emergencies? SOL Server Performance Tuning

Practical Workshop is my MOST popular training with no PowerPoint presentations and 1

Essentially I share my business secrets to optimize SQL Server performance.

3 FREE Scripts to Instantly Improve SQL Server Performance

Learn how to increase Performance of SQL Server **INSTANTLY** with 3 free scripts.

Email Address *

SEND ME FREE SCRIPTS NOW





SQL Interview Q & A Testimonials Search Privacy Policy © 2006 – 2021 All rights reserved. pinal @ SQLAuthority.com

3 FREE Scripts to Instantly **Improve SQL Server Performance**

Learn how to increase Performance of SQL Server **INSTANTLY** with 3 free scripts.

Email Address *

SEND ME FREE SCRIPTS NOW