

SQLintersection

Session: Monday, 11:45-12:45am

Understanding SQL Backups and Restores

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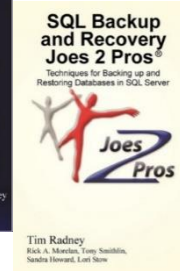
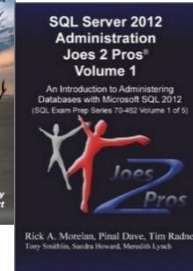
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Tim Radney



- **Consultant/Trainer/Speaker/Author**
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- **Microsoft Data Platform MVP**
- **Chapter Leader “Columbus GA SQL Users Group”**
- **PASS Regional Mentor “South East USA”**
- **Outstanding PASS Volunteer**
- **Regular presenter at worldwide conferences on administration, disaster recovery and performance tuning.**
- **Friend of Red Gate**
- **(I also like electronics, aquaponics, farming chickens, goats, veggies, and tilapia)**



Reminder: Intersect with Speakers and Attendees

- **Tweet tips and tricks that you learn and follow tweets posted by your peers!**
 - Follow: #SQLIntersection and/or #DEVIntersection
- **Join us – Tuesday Evening – for SQLafterDark**
 - Doors open at **7:00 pm**
 - Trivia game starts at **7:30 pm**
 - Winning team receives something fun!*
 - Raffle at the end of the night
 - Lots of great items to win including a seat in a SQLskills Immersion Event!*
 - The first round of drinks is sponsored by SentryOne and SQLskills



Overview

- **Know your backup types**
 - SLAs matter
 - Which is correct for you
 - Know your backups are valid
 - An approach for backing up large databases
- **Know how to restore your backups**
 - Have a restore strategy
 - Performing point in time restores
 - Performing piecemeal restores
- **Have a plan**
 - Have a solid restore strategy and proven disaster recovery plan

Backup Types

- **Which is the correct choice for you?**
 - Full
 - Partial
 - Differential
 - Filegroup
 - File
 - Log
 - COPY_ONLY
- **A combination of the above is usually warranted to meet your SLAs**
 - Service Level Agreements

VLDBs

- **A good approach for Very Large DataBases (100s of GBs or more)**
 - Split data into multiple filegroups
 - Partitioned views
 - Sliding window using partitioning
- **Allows for partial restores**
 - Restore active partitions/filegroups more quickly

Recovering Transactions

- **You have to restore, now what do you do?**
 - Do you need to perform a tail-log backup?
 - <http://www.timradney.com/taillogrestore>
 - Restore last known good full backup
 - Restore most recent differential backup, if you have them
 - Restore transaction log backups
 - (Restore tail-of-the-log backup?)

Have a Plan

- **Know how to recover**

- Test that your backups restore
- Have a disaster recovery plan
- Test your disaster recovery plans frequently
- Have user objects scripted out
 - <http://support.microsoft.com/kb/918992>

- **Know your facts**

- Know how long restores take

Demo

Various Restore Options

Summary

- **Know your backup types**
 - Have the proper backups to meet your customers' SLAs
- **Know how to recover**
 - Have a restore strategy
 - Know how long restores will take
 - Know how to perform point in time restores
- **Have a plan**
 - The first time you perform a restore should not be in production
 - Know you have a solid backup strategy that meets requirements
 - Have a proven disaster recovery plan in place
- **Demo scripts** - <https://www.sqlskills.com/sql-server-resources>

Questions?



Don't forget to complete an online evaluation!

Understanding SQL Backups and Restores

Your evaluation helps organizers build better conferences
and helps speakers improve their sessions.



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Thank you!

Save the Date

www.SQLintersection.com

Oct 30-Nov 2, 2017

We're back in Vegas baby!

