SQLintersection
Session: Wednesday, 11:15-12:15pm

Understanding SQL Backups and Restores

Tim Radney

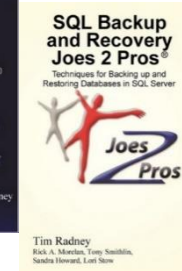tim@sqlskills.com

Tim Radney

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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, veggies, and tilapia)**

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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 – WEDNESDAY 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

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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.
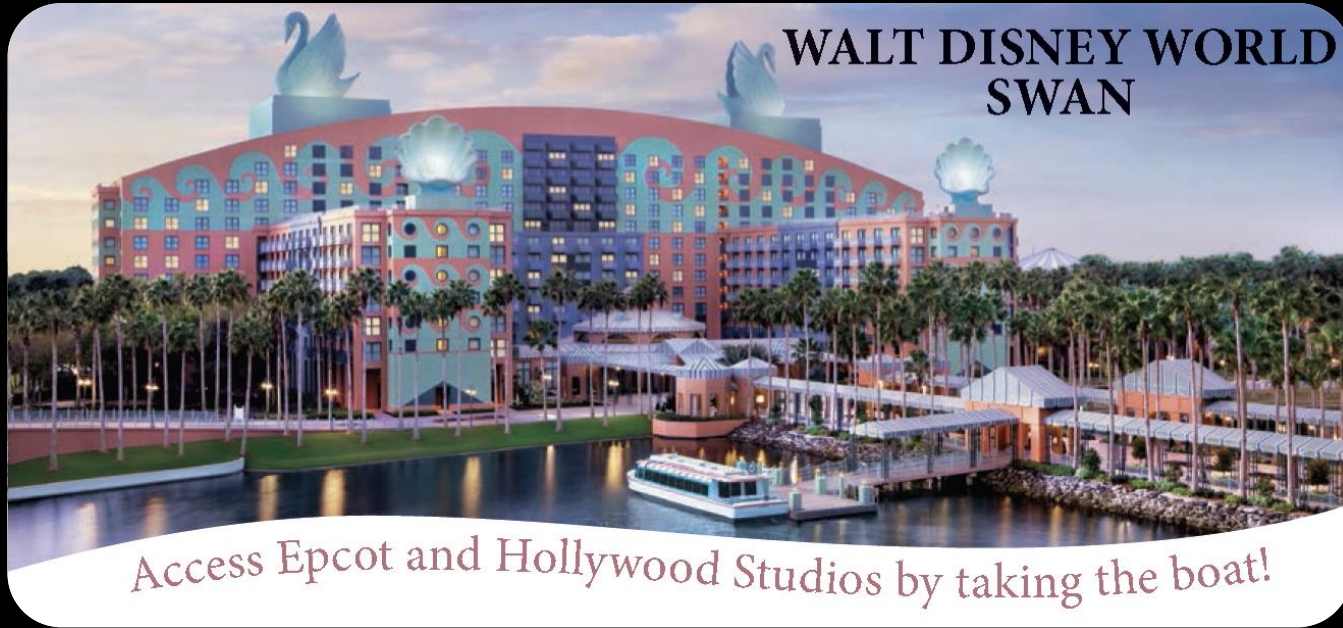

Thank you!

Save the Date!

www.SQLintersection.com

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