Lesson 12: Backup and Recovery

CS 393: Database Systems

# Lesson Overview

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| **Topic** | **Timing** | **Key Ideas** |
| Review | ~5 minutes | ACID principles |
| Logging | ~15 minutes | Discuss types of logs, how they’re used, types of logging methods, how logs are used during a transaction |
| Backups | ~5 minutes | Discuss backup strategies such as 3/2/1, Full & incremental, hot vs warm vs cold sites |
| Review | Remaining | Review HW 1 results to prep for the WPR |

## Required Readings

* DS 22.3
* [MySQL Tutorial – MySQL Error Log, General Query Log and Slow Query Log - YouTube](https://www.youtube.com/watch?v=LtjbK7pn5ww)

## Supplementary Reading

* [Back Up Your MySQL Databases! (Spoiler: It's Easy)](https://www.youtube.com/watch?v=qoR2GaJmi8s&t=37s)

# Lesson Objectives & Assessment

* Describe how databases enforce durability through logging
* Discuss the difference between backups and recovery

# Lesson Plan

## Timeline

## Comments