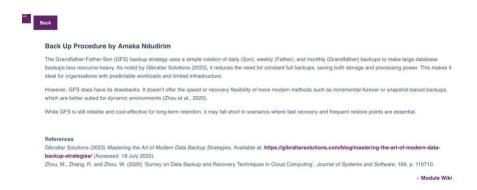
## **Unit 11: DBMS Transaction and Recovery**

This unit introduced me to the concept of **transaction processing** in database systems and how it ensures data stays consistent, even if something goes wrong. We focused on the **ACID properties**—Atomicity, Consistency, Isolation, and Durability—and how they shape the full transaction cycle from start to finish.

We also looked at scheduled transactions, how system failures can interrupt them, and the importance of **checkpoints** in keeping things recoverable.

## **Back Up Procedure Activity**

As part of this unit, I reviewed the **Grandfather-Father-Son (GFS)** backup strategy—a tiered backup rotation system often used in large-scale environments. Using the *Gibraltar Solutions (2023)* reading as a starting point, I explored how this method balances storage use and backup frequency.



## **Module Project**

Building on the group project from Unit 6, we were asked to submit an **executive summary** of our database design. The final deliverable pulled together everything we worked on—from initial planning and database modelling to technology selection and legal compliance.

GitHub link to the full summary can be found here: Project Executive Summary.pdf

## Reference

Gibraltar Solutions. (2023) Mastering the Art of Modern Data Backup Strategies.