MONTH 3: DATABASES & CLOUD FUNDAMENTALS

WEEKS 9-10: RELATIONAL DATABASES (SQL)

- Database Design & Administration
 - Combine typical SRE tasks (e.g., monitoring database performance, basic query optimization).
 - o Practical lab: Set up replication or backups, if time allows, to underscore reliability.
- **Project**: Implement a Simple Database with CRUD Operations
 - o Must include performance profiling of queries (explain plans, indexing strategy).

WEEKS 11-12: CLOUD COMPUTING BASICS

- Introduction to Cloud Platforms (AWS/Azure/GCP)
 - o Go beyond just "Hello World;" introduce how to set up security groups, VPC networks, or IAM roles.
 - o Stress cost management basics, as large enterprises track usage meticulously.
- **Lab**: Deploy a Basic Application to the Cloud
 - o Require logs to be captured in a centralized location.
 - Follow best practices for ephemeral environments (infrastructure that can be easily spun up or destroyed).

Suggested Improvement: Encourage participants to pursue a foundational cloud certification, if time and budget permit, to validate their skills.