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REVIEWER'S REPORT

Manuscript No.: IJAR-59827

Title: Design and Performance Evaluation of High-Availability Cloud Database Architectures for Saudi Government Digital Infrastructure.

Recommendation:

Accept as it is .....

Accept after minor revision.....

Accept after major revision .....

Do not accept (*Reasons below*) .....

Rating	Excel.	Good	Fair	Poor
Originality		✓		
Techn. Quality		✓		
Clarity		✓		
Significance	✓			

Reviewer Id: JPR-274

Reviewer's Comment for Publication.

The manuscript presents a relevant and comprehensive conceptual synthesis of high-availability cloud database architectures for Saudi government digital infrastructure. It addresses important technical and operational considerations, including replication strategies, consistency guarantees, quorum-aware failover, disaster recovery, data integrity, security, and data sovereignty. A notable strength is its recognition that infrastructure redundancy alone does not guarantee reliable public services; transaction correctness, recovery authorization, and end-to-end service continuity must also be considered. The proposed architecture and evaluation framework provide a useful foundation for assessing database resilience through workload-specific failure experiments and measurable service-level indicators. The discussion of recovery time objectives, recovery point objectives, isolated backups, transaction verification, and governance responsibilities adds practical relevance to the study. The manuscript is logically organized and demonstrates a good understanding of the technical challenges associated with distributed database systems. However, the review methodology is based on conceptual and relevance-based selection rather than a fully reproducible systematic screening process. Some references also require bibliographic consistency and completeness checks, particularly entries with incomplete author information. Overall, the manuscript makes a meaningful contribution to research on cloud database resilience and digital government infrastructure. It is suitable for publication after minor revision.