SOEN 363: Database Project - Peer Review Report

April 22, 2025

Peer Review Information

Reviewer: Mahmoud Mohamed (40163777) – Team #29 - awesomTeam

Reviewed Project: Team #27 – DialedIn

Project Title: SoccerStatsDB – Soccer Statistics Database Project

Team Members: Cedric Lim Ah Tock, Andrew Harissi Dagher, Aniss Chalah, Kevin Shibu Chacko

Evaluation

Overall presentation quality

- Very Good (A)

The slides follow a clear, logical structure and the visuals are polished. Code and schema diagrams were explained succinctly, and the presenters filled in additional details verbally, such as performance benchmarks that weren't on-screen.

Complexity / Applicability of the database application

- Excellent (A+)

Integrating two distinct live APIs into both a relational and a graph database, complete with IS-A, weak entities, and migration scripts, shows impressive depth and direct relevance to real-world sports data analysis.

Use of Technology

- Excellent (A+)

They demonstrated solid PostgreSQL design (domains, triggers, views) and effective Python scripts to migrate into Neo4j, including use of full-text indexes and structural indexes to optimize graph queries.

The Presenters address all challenges

- Very Good (A)

They clearly outlined key hurdles, ID mismatches across APIs, handling partial data failures, and translating relational queries into Cypher, and verbally shared specific before-and-after performance results to show how indexing improved query times.

Teamwork and Participation

- Good (A–)

The seamless slide design and smooth handoffs imply strong collaboration. While individual speaking roles weren't explicitly credited on-screen, each member contributed technical details during the presentation.

Additional comments / suggestions

Add a dedicated summary slide with key performance metrics (query runtimes and index impacts) so offline viewers can quickly grasp the improvements.

Outline specific design trade-offs (for example, embedding match events versus referencing in Neo4j) to clarify reasoning behind schema decisions.

Include a brief note on how the solution could scale with larger datasets or future data sources, highlighting potential areas for enhancement.