Brisbane Olympics

Scenario

Brisbane is hosting the world's simplest Olympics!

In the spirit of Simplification + Time Saving, Brisbane are using a minimal database and python backend to schedule an Olympics. The database consists of types of Person (Athlete, Official), types of Location (Residential Village, Sporting Venue) and their various relationships.

A python query file adds extra validation to sql queries to smbolise "business logic" that normnally lives outside the database and in the application layer.

Contents

This demo consists of:

- A pdf with a discussion of database and application design, including constraints and assumptions.

- ERD and RM diagrams outlining the database tables in detail.

- MainDB.sql: to setup the full database exactly as per ERD, with constraints and concurrency preferences.

- MiniDB.sql: to setup a smaller version of the database and query functions.

- Scheduler.py: to add validation that belongs in the application layer rather than the database itself. This calls query functions from MiniDB.sql.

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