**Indexes:**

* idx\_event\_complete on Event Table column (complete)
* idx\_exercise\_name on Exercise Table column (name)
* Event Table id and Exercise Table event\_id are PRIMARY KEY & implicitly are indexed

**idx\_event\_complete**:

* Used by Exercise, Rep, and Set ORM objects to query database for only completed exercises
* Exercise is used in the Statistics report to list out all exercises completed between 2 dates
* Rep and Set are used in the Statistics report to retrieve reps and sets count of only completed exercises

**idx\_exercise\_name**:

* Used by Rep and Set ORM objects to query database for matching exercise names
* Rep and Set are used in Statistics report to retrieve reps and sets count of exercises that match the selected name

**id & event\_id**:

* Used in most parameterized queries, including:
  + queryEventById() – view individual event helper function
  + queryExerciseById() – viewing individual exercise helper function
  + queryAllEventsWithExercise()
    - retrieves all events and corresponding exercise info
    - used in Calendar and Home pages to display uncompleted events
  + queryEventAndExerciseById()
    - retrieve event and exercise info for a specific event
    - used in Calendar and Home pages for editing events
  + deleteEventById() – delete individual event helper function
  + deleteExerciseById() – delete individual exercise helper function
  + deleteEventAndExerciseById()
    - completely removes an event and corresponding exercise
    - used in Calendar and Home pages for managing events
  + updateEventById()
    - modify stored data for an event
    - used in Calendar and Home pages for editing events
  + updateExerciseById()
    - modify stored data for an exercise
    - used in Calendar and Home pages for editing exercise rep/set/duration/name
  + markEventCompleteById()
    - set the ‘complete’ column to 1 for an event
    - used in Calendar and Home pages for marking an event as done
* Used in Exercise, Rep, and Set ORM queries for matching event\_id = id