Data Structures and Representation (ZEIT2103) – 2022
Assignment 2 – Files, Databases, and SQL – Olympic Medals
Marking Template

Task 1

Requirement	Points Assigned	Points Earned
Implement the constructor in `OlympicDBAccess.java`	3	
Implement the method `createTables()` • Olympics, Events, Athletes: 3 marks each • Medals: 5 marks	14	
Implement the method `dropTables()`	3	
Written responses to Q4 • a: 1 mark • b: 2 marks • c: 2 marks	5	
TOTAL	25	

Task 2

Requirement	Points Assigned	Points Earned
Reporting time for `populateTables()`	2	
Populating Olympics table	8	
Populating Events table	8	
Populating Athletes table	8	
Populating Medals table • Reading file: 4 marks • Retrieving the correct athleteID: 4 marks • Retrieve the correct olympicID: 4 marks • Retrieve the correct eventID: 4 marks • Insert the records in Medals: 3 marks	19	
TOTAL	45	

Task 3

Requirement	Points Assigned	Points Earned
`runQueries()` • Q1, including display of query result: 4 marks • Q2, including display of query result: 6 marks • Q3, including display of query result: 10 marks • Q4, including display of query result: 10 marks	30	
TOTAL	30	

General Concerns

Here is a list of some of the things that will be considered when evaluating submissions:

- Discussion of your design and choices including appropriate justifications (e.g., how you've handled inserting the data, how you've handled reading of the files, any helper methods you've created, etc.)
- Suitable Javadoc comments and inclusion of inline comments, where appropriate, to clarify the intent of your code
- Efficiency of database operations such as the time taken to populate the database, reuse of connections and statement objects where appropriate, etc.
- Appropriate catching of errors that may arise, such as if a file is not found
- Appropriate disposal of resources (e.g., the database connection) when no longer needed
- Proof of appropriate testing