Contents

MySQL Questions 2
Question A (MySQLQA.txt) 2
Question B (MySQLQB.txt) 3
Question C (MySQLQC.txt) 4
Question D (MySQLQD.txt) 5
Neo4j Questions 6
Question A (Neo4jQA.txt) 6
Question B (Neo4jQB.txt) 7
Question C (Neo4jQC.txt) 8
Question D (Neo4jQD.txt) 9

MySQL Questions

Import the MySQL database as described in section 4.1 MySQL, of the Final Project Specification and write queries to satisfy the following.

Write only the exact MySQL command for each question into the appropriate file.

Question A (MySQLQA.txt)

Show the number of directors (as “Number of Directors”) from each country (as “Country”) that have directed Oscar winning films.

The results should be sorted alphabetical by “Country”.

```
+---------------------+----------------+
| Number of Directors | Country        |
+---------------------+----------------+
|                   4 | Canada         |
|                   1 | Japan          |
|                   1 | Mexico         |
|                   6 | New Zealand    |
|                   3 | Taiwan         |
|                   1 | United Kingdom |
|                  33 | United States  |
+---------------------+----------------+
7 rows in set (0.00 sec)
```

Figure 1 Example of output required for Question A

Question B (MySQLQB.txt)

Show the names of the studios (as “Studio”) that released films that “Tom Cruise” has acted in.

The results should be sorted alphabetical by “Studio”.

```
+----------------------+
| Studio               |
+----------------------+
| Paramount Pictures   |
| Warner Bros. Pictures |
+----------------------+
2 rows in set (0.00 sec)
```

Figure 2 Example of output required for Question B

Question C (MySQLQC.txt)

Show the name of each actor born between 1960 and 1965 inclusive (as “Actor”), and the genre (as “Genre”) and film name (as “Film”) of films they acted in.

The results should be sorted alphabetical by “Actor”, within that alphabetically by “Genre” and within that alphabetically by “Film”.

Actor	Genre	Film
Andy Serkis	Other	King Kong
Brad Pitt	Other	Ocean's Eleven
Brad Pitt	Other	Troy
Brad Pitt	Romantic	Mr. and Mrs. Smith
Chris Rock	Other	Bee Movie
Chris Rock	Other	Lethal Weapon 4
Don Cheadle	Other	Ocean's Eleven
George Clooney	Drama	The Perfect Storm
George Clooney	Other	Ocean's Eleven
Hiroyuki Sanada	Other	Sunshine
Hiroyuki Sanada	Other	The Last Samurai
Hugo Weaving	Other	The Matrix Reloaded
Hugo Weaving	Other	The Matrix Revolutions
Hugo Weaving	Other	Transformers
Jet Li	Other	Lethal Weapon 4
John C. Reilly	Drama	The Perfect Storm
Johnny Depp	Muscial	Charlie and the Chocolate Factory
Keanu Reeves	Other	The Matrix Reloaded
Keanu Reeves	Other	The Matrix Revolutions
Laurence Fishburne	Other	Mission: Impossible III
Laurence Fishburne	Other	The Matrix Reloaded
Laurence Fishburne	Other	The Matrix Revolutions
Matthew Broderick	Other	Bee Movie

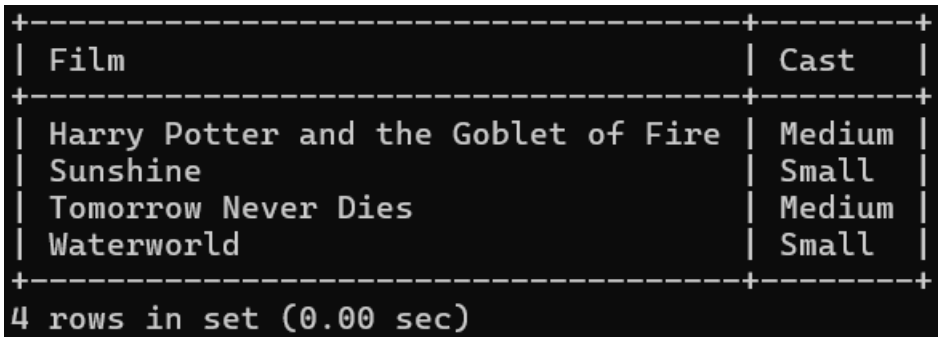
Figure 3 Example of output required for Question C

Question D (MySQLQD.txt)

Show the film name (as “Film”) for all films where the director is from the “United Kingdom”, and a column entitled "Cast” that contains:

- “Small” if the cast is less than 5
- “Medium” if the cast is between 5 and 9
- “Large” if the cast is 10 or greater.

The results should be sorted alphabetical by “Film”.



Film	Cast
Harry Potter and the Goblet of Fire	Medium
Sunshine	Small
Tomorrow Never Dies	Medium
Waterworld	Small

4 rows in set (0.00 sec)

Figure 4 Example of output required for Question D

Neo4j Questions

Import the Neo4j database as described in section 4.2 Neo4j, of the Final Project Specification and write queries to satisfy the following.

Write only the exact Neo4j command for each question into the appropriate file.

Question A (Neo4jQA.txt)

Return all friend-of-a-friends of student with the sid TUS-L017 (as “FOAF”) and the name of the course the friend-of-a-friend is studying (as “FOAF_Course”).

The results should be sorted alphabetical by “FOAF”, and within that alphabetically by “FOAF_Course”

(NOTE: A friend-of-a-friend in someone who is friends with a friend of a person, but not with the friend themselves.

In the following example, “Tadgh Robins” is a FOAF of “Fiona Murphy”, but “Clodagh Murphy” is not a FOAF of “Fiona Murphy”; because “Clodagh Murphy” has a direct friendship with “Fiona Murphy”, but “Tadgh Robins” does not).

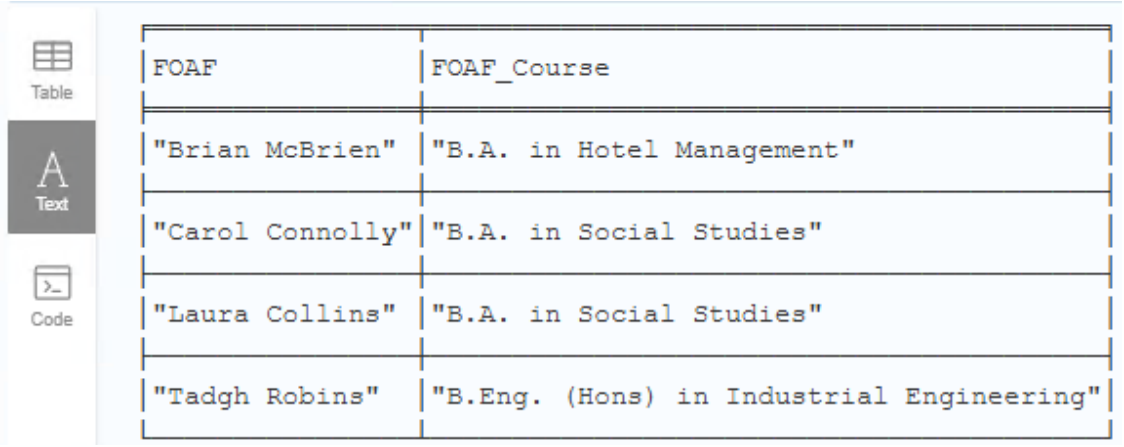


Figure 5 Example of output required for Question A

Question B (Neo4jQB.txt)

Return the course name (as “Name”), the course cao (as “CAO”), and the total gpa for students studying that course (as “Total_GPA”), for all courses with students studying them in the Location Galway.

“Total_GPA” should be rounded to the nearest whole number.

The results should be sorted alphabetical by “CAO”.

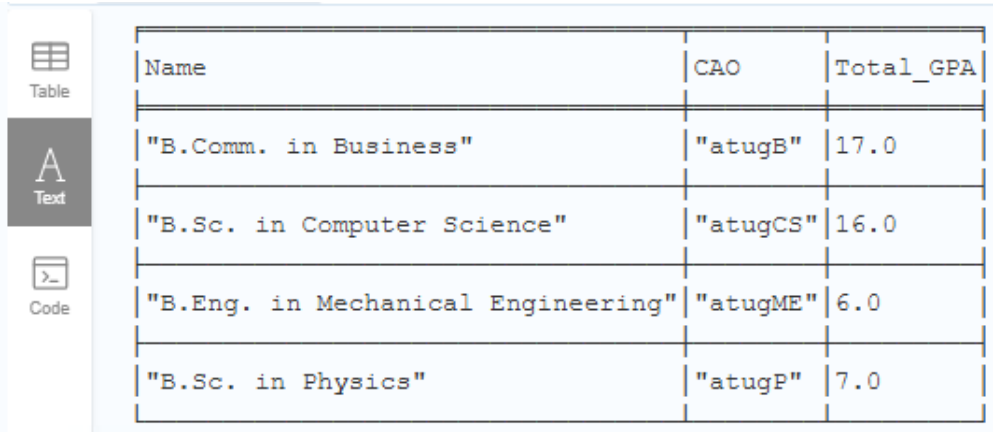


Figure 6 Example of output required for Question B

Question C (Neo4jQC.txt)

Return the location (as “Location”) and the number of courses with no students studying them (as “Empty_Courses”) for each location in the Institution “Atlantic Technological University”

Results should be returned in descending “Empty_Courses” order, and within that alphabetically by “Location”.

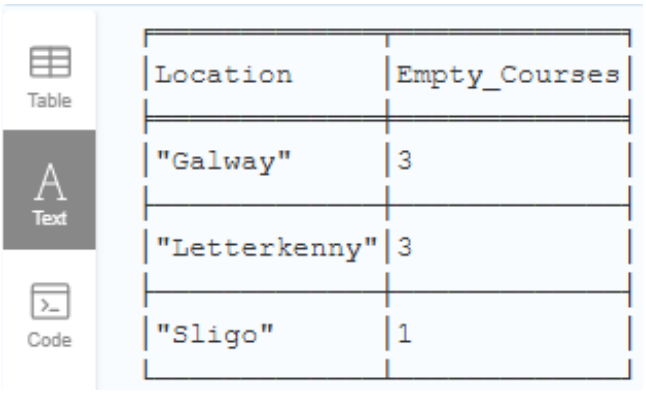


Figure 7 Example of output required for Question C

Question D (Neo4jQD.txt)

Return the average gpa (as “Avg_Sligo_GPA”) for students in the Location “Sligo”.

“Avg_Sligo_GPA” should be rounded to 1 decimal place e.g. 1.22 should be rounded to 1.2, and 1.25 should be rounded to 1.3.

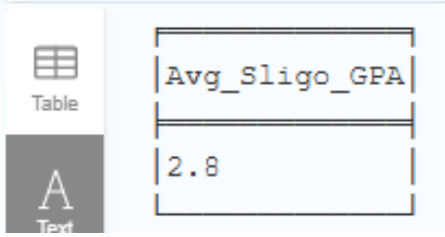


Figure 8 Example of output required for Question D