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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 film name (as "Film") and the number of actors in that film, for films from the "20th Century Fox" studio.

The results should be sorted alphabetical by "Film".



Figure 1 Example of output required for Question A

Question B (MySQLQB.txt)

Show the names of actors born in November (as "Born in November") and the number of Films they starred in (as "Number of Films").

The results should be sorted in ascending "Number of Films" order, and within that alphabetically by name.

+ Born in November	++ Number of Films
Billy Connolly Don Cheadle Leonardo DiCaprio Mary Elizabeth Mastrantonio Tom Sizemore Owen Wilson Samantha Bond	1 1 1 1 1 2 2
7 rows in set (0.00 sec)	++

Figure 2 Example of output required for Question B

Question C (MySQLQC.txt)

Show the name of films (as "Film") that have at least one actor from Ireland.

The results should be sorted alphabetically by "Film".

```
Film

Batman Begins

Beowulf

Die Another Day

Harry Potter and the Goblet of Fire

Harry Potter and the Order of the Phoenix

Harry Potter and the Philosopher's Stone

Kingdom of Heaven

Mission: Impossible II

Sunshine

Tomorrow Never Dies

Troy

Troy

Troy

Troy

Troy

Tows in set (0.00 sec)
```

Figure 3 Example of output required for Question C

Question D (MySQLQD.txt)

Show the name of films released between 1990 and 1993 inclusive (as "Film") and a shortened film synopsis (as "Synopsis").

The synopsis should contain either:

- All characters up to, and including, the first comma, followed by " ..."
- If there is no comma in the film synopsis the first 10 characters of the synopsis followed by "+++".

The results should be sorted alphabetically by "Film".

```
| Back to the Future Part III | Doctor Emm +++ |
| Dances With Wolves | Lt. John Dunbar, ... |
| Goodfellas | Henry Hill +++ |
| Jurassic Park | Scientists +++ |
| Kindergarten Cop | A tough co +++ |
| Lethal Weapon 3 | Martin Riggs finally meets his match in the form of Lorna Cole, ... |
| Reservoir Dogs | After a simple jewelery heist goes terribly wrong, ... |
| Robin Hood: Prince of Thieves | When Robin and his Moorish companion come to England and the tyranny of the Sheriff of Nottingham, ... |
| Star Trek VI: The Undiscovered Country | The crews +++ |
| Terminator 2: Judgement Day | The cytory who once tried to kill Sarah Connor must now protect her teenager son, ... |
| The Fugitive | Dr. Richard Kimble, ... |
| The vision 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 the location (as "Location"), the Course name (as "Course"), the number of students studying the course (as "Students), and a column entitled "Class_Size" that has one of the following values:

- "Tiny" if the number of students studying a course is less than 4
- "Small" if the number of students studying a course is equal to 4
- "Big" if the number of students studying a course is equal to 5
- "Large" if the number of students studying a course is greater than 5.

Only courses in the Institution *Technological University of the Shannon* should be included.

The results should be sorted in descending "Students" order, and within that alphabetically by "Course".

Table	Location	Course	Students	Class_Size
Α	"Athlone"	"B.A. in Social Studies"	6	"Large"
Text	"Athlone"	"B.Sc. in Computer Science"	5	"Big"
Code	"Limerick"	"B.Comm. (Hons) in Accounting & Finance"	4	"Small"
	"Limerick"	"B.Eng. (Hons) in Industrial Engineering"	4	"Small"
	"Limerick"	"B.Sc. in Agricultural Science"	2	"Tiny"
	"Limerick"	"B.Eng. in Industrial Engineering"	1	"Tiny"
	"Limerick"	"B.Sc. (Hons) in Agricultural Science"	1	"Tiny"

Figure 5 Example of output required for Question A

Question B (Neo4jQB.txt)

Return the maximum points (as "Max"), the minimum points (as "Min"), and the average points (as "Average") for courses in "Athlone"

The "Average" should be rounded to the nearest whole number.

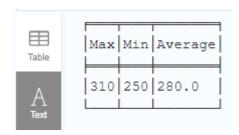


Figure 6 Example of output required for Question A

Question C (Neo4jQC.txt)

Return the sid (as "SID"), name (as "Name"), and gpa (as "GPA"), and a column entitled "Average_GPA_Sligo" (rounded to two decimal points) which consists of the average gpa of students in "Sligo" doing courses of 4 years in duration.

However, only students whose gpa is less than the "Average_GPA_Sligo" should be included.

The results should be sorted alphabetically by "SID".

Table	SID Name GPA Average GPA Sligo
А	"ATU-S005" "Ryan O'Farrell" 2.1 2.85
Text	"ATU-S007" "Pascal Connors" 2.4 2.85
Code	"ATU-S011" "Jack Gallagher" 2.8 2.85
	"ATU-S015" "Albert Doherty" 2.1 2.85

Figure 7 Example of output required for Question C

Question D (Neo4jQD.txt)

Return the name of each institution (as "Institution") and a column entitled "Number_of_courses" which contains the number of courses provided by that institution.

The results should be sorted alphabetically by "Institution".

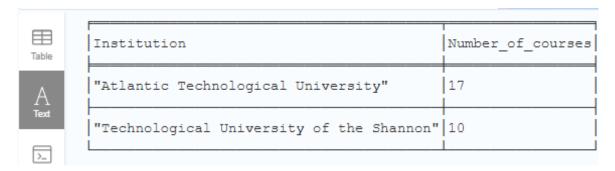


Figure 8 Example of output required for Question D