**CS 207: Applied Database Practicum**

**In-Class Activity 3: Introduction to Mysql, 2nd September, 2019**

In this activity, you will be working in Mysql.

Q1. Open Mysql and perform the following action:

1. Create a database CS207
2. Create a table Students inside the database CS207 with the following attributes:

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute Name | Datatype | Key | Value |
| ROLL\_NO | Varchar | Primary Key | NOT NULL |
| LastName | Varchar | NONE | NOT NULL |
| FirstName | Varchar | NONE | NOT NULL |
| Age | int | NONE | NOT NULL |
| Semester | Int | NONE | NOT NULL |
| Hometown | Varchar | NONE |  |

1. Create a table new\_students similar to the one above
2. Insert all your group member details into the table Students
3. Add another column CGPA into table Students
4. Insert the CGPA of all the group members into the table Students
5. Calculate the average of the CGPA of the Students.
6. Display the first 3 records form the table Students.

Q2. In this question load the dump file given in moodle and perform the following actions:

1. Find the MINIMUM, MAXIMUM and AVERAGE SurfaceArea
2. Give a count of distinct countries present in the table
3. Give a count of the number of countries where GNP is greater than GNPOld
4. Show the country name, continent name and population of the country with the highest population
5. Show the country name, continent name and population of the country with the lowest population

BONUS: ONLY if you have done the above steps, then you can try this bonus for an extra point.

1. Show the distinct Government Forms
2. Show those countries which Government is Republic (all Republic’s should be included: Socialistic, Federal Republic and Republic)
3. Show those countries whose government is “Monarchy” (should include only the Keyword “Monarchy”)