

**CS 207: Applied Database Practicum**  
**In-Class Activity 3: Introduction to Mysql, 2<sup>nd</sup> September, 2019**

In this activity, you will be working in Mysql.

Q1. Open Mysql and perform the following action:

- i) Create a database CS207
- ii) 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	

- iii) Create a table new\_students similar to the one above
- iv) Insert all your group member details into the table Students
- v) Add another column CGPA into table Students
- vi) Insert the CGPA of all the group members into the table Students
- vii) Calculate the average of the CGPA of the Students.
- viii) Display the first 3 records from the table Students.

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

- i) Find the MINIMUM, MAXIMUM and AVERAGE SurfaceArea
- ii) Give a count of distinct countries present in the table
- iii) Give a count of the number of countries where GNP is greater than GNPOld
- iv) Show the country name, continent name and population of the country with the highest population
- v) 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.

- i) Show the distinct Government Forms
- ii) Show those countries which Government is Republic (all Republic's should be included: Socialistic, Federal Republic and Republic)
- iii) Show those countries whose government is "Monarchy" (should include only the Keyword "Monarchy")