

Advanced Java Programming Laboratory (CSL56)

USN:

Week #: 01

Semester:

Section:

Date:

Programs:

1. Write a Java program that connects to the database and perform the following operations using **Statement object**. (Create database and Insert tuples using phpMyAdmin)
 - i. Create a table Student (USN, Name, Semester, Department, CGPA)
 - ii. Insert 5 tuples.
 - iii. Display all the records.
 - iv. Display all the details of the students who belong to “CSE” department.
 - v. Display all the details of the students who have CGPA above 8.5.
 - vi. Update the Semester of a student with USN CS010 from 4th Semester to 5th Semester. And display the details.
2. Write a Java program that connects to the database and perform the following operations using **Statement object**. (Create the table and insert the values using Statement Objects)
 - i. Create a table Student_Results (USN, Name, Sub1_Marks, Sub2_Marks, Sub3_Marks, Sub4_Marks)
 - ii. Insert 5 tuples. Read the values from the keyboard.
 - iii. Display the USN of the students who have secured highest marks in Sub1_Marks, Sub2_Marks, Sub3_Marks & Sub4_Marks.
 - iv. Display the Subject-wise maximum, Minimum & Average Marks.
 - v. Display the count of students who have scored less than 40 marks in Sub1_Marks.
3. Write a Java program that connects to the database and perform the following operations using **PreparedStatement object**. (Create Table using phpMyAdmin)
 - i. Create a table Employee (ID, FName, LName, Project, Salary)
 - ii. Insert 5 tuples using PreparedStatement and read the values from the keyboard.
 - iii. Display all the records.
 - iv. Display all the records of those employee who work for project “Web Development”.
 - v. Update the Salary of an employee from 50k to 60k who’s ID is “100”. Read the Salary from the user and update.



| EVALUATION | | | |
|--------------------------|---------|-------|-------------------|
| Program | Remarks | Marks | Faculty Signature |
| Student Database | | | |
| Student_Results Database | | | |
| Employee Database | | | |