Ramaiah Institute of Technology
(Autonomous Institute, Affiliated to VTU)
Department of Computer Science & Engineering

Advanced Java Laboratory (CSL56)

USN: **Week #: 03**

Semester: **Section:** **Date:**

Instructions:

- **Implement the following programs using java language.**

Programs:

1. Write a java program that connects to a Department (Dept_ID, Name, Year_Established, Head_Name, No_of_Employees) database using JDBC and perform the following.

   i. Display details of all the Departments using Statement Object.

   ii. Display details of all the Departments which are established in the year 2000 using PreparedStatement object. Read the value from the user and display appropriate messages.

   iii. Display details of all the Departments by reading Dept_ID and Department Name from the user using PreparedStatement object.

   iv. Insert a new row using PreparedStatement object. Display the details.

2. Write a java program that connects to the Subject (Code, Name, Department, Credits) database using JDBC. Create an Updatable ResultSet and perform the following operations.

   i. Update the Name of the subject from "Java Programming Lab" to "Advanced Java Programming Lab" with Code as CSL56.

   ii. Delete the subject "System Programming" from the table. Use PreparedStatement Object.

   iii. Display details of all the Subjects.

3. Write a java program that connects to the Movies (ID, Movie_Name, Genre, IMDB_Rating, Year) database using JDBC. Create an Updatable ResultSet and perform the following operations.

   i. Display details of all the Movies from the table.

   ii. Display details of 5th Movie from the table.

   iii. Insert a new row into the table using PreparedStatement and display all the details.

iv. Delete a row from the table where the IMDB_Rating is less than 5.

v. Update the Genre of a movie with ID as 10 to "Sci-fi".

<table>
<tr><td colspan="4" align="center">EVALUATION</td></tr>
<tr><td>Program</td><td>Remarks</td><td>Marks</td><td>Faculty Signature</td></tr>
<tr><td>Department Database Program</td><td></td><td></td><td rowspan="3"></td></tr>
<tr><td>Subject Database Program</td><td></td><td></td></tr>
<tr><td>Movies Database Program</td><td></td><td></td></tr>
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