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CLASS	622-A

Experiment – 6 (Part – a) :

Title

Connecting to MySQL and Fetching Data from a Table.

Objective

To develop a Java program that connects to a MySQL database and retrieves data from a single table using JDBC.

Task Description

This task introduces basic JDBC connectivity to perform a **read operation**:

- Use DriverManager to load the JDBC driver and connect to the database.
- Use Connection, Statement, and ResultSet to execute SQL commands.
- Target a table named **Employee** with columns: EmpID, Name, and Salary.
- Write and execute a SELECT query to fetch all records from the table.
- Display each record using a loop to demonstrate the output clearly.

This exercise helps build foundational skills for working with JDBC and SQL databases in Java.

Code :

```
import java.sql.*; // Importing all JDBC classes


public class FetchEmployeeData {
    public static void main(String[] args) {
        // Step 1: Define database connection details
        String url = "jdbc:mysql://localhost:3306/companydb"; // Database name: companydb
        String username = "root"; // MySQL username
        String password = "your_password"; // MySQL password


        try {
            // Step 2: Load and register the JDBC driver
            Class.forName("com.mysql.cj.jdbc.Driver");


            // Step 3: Establish connection
            Connection con = DriverManager.getConnection(url, username, password);
            System.out.println("☑ Connected to the database successfully!");


            // Step 4: Create a SQL query
            String query = "SELECT EmpID, Name, Salary FROM Employee";
```

```
        // Step 5: Create a Statement object
        Statement stmt = con.createStatement();

        // Step 6: Execute query and store result
        ResultSet rs = stmt.executeQuery(query);

        // Step 7: Process and display data
        System.out.println("\nEmployee Records:");
        System.out.println("---------------------------------");
        while (rs.next()) {
            int id = rs.getInt("EmpID");
            String name = rs.getString("Name");
            double salary = rs.getDouble("Salary");

            System.out.println("EmpID: " + id + ", Name: " + name + ", Salary: " +
salary);
        }

        // Step 8: Close resources
        rs.close();
        stmt.close();
        con.close();
        System.out.println("\n☑ Data retrieved and connection closed.");

    } catch (Exception e) {
```

```
            e.printStackTrace();
        }
    }
}
```

Output :