**MYSQL**

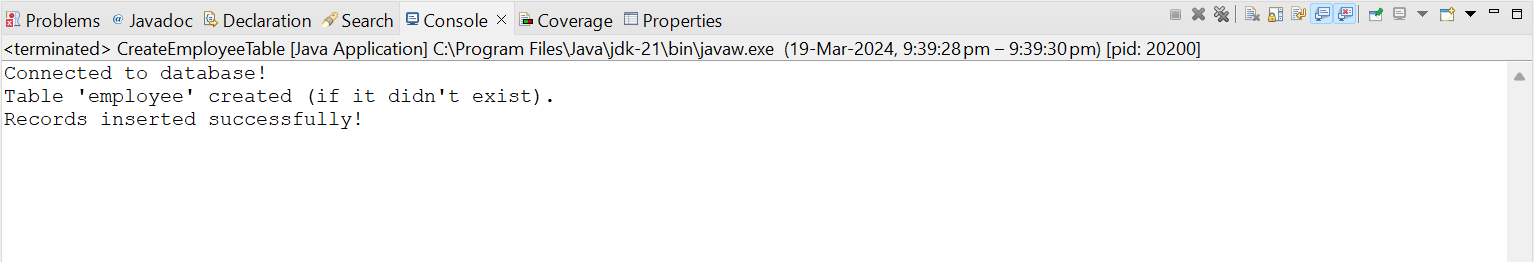
1. Create a table employee to store employee details as show below and write statement for the following queries based on the table.

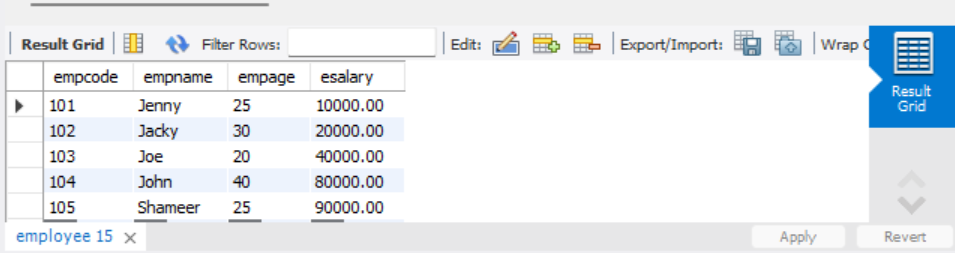
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| **-- Create the employee table**  **CREATE TABLE employee (**  **empno INT PRIMARY KEY,**  **ename VARCHAR(50),**  **job VARCHAR(50),**  **mgr INT,**  **hiredate DATE,**  **sal DECIMAL(10,2),**  **comm DECIMAL(10,2),**  **deptno INT**  **);**  **-- Insert the values into the employee table**  **INSERT INTO employee (empno, ename, job, mgr, hiredate, sal, comm, deptno) VALUES**  **(8369, 'SMITH', 'CLERK', 8902, '1990-12-18', 800.00, NULL, 20),**  **(8499, 'ANYA', 'SALESMAN', 8698, '1991-02-20', 1600.00, 300.00, 30),**  **(8521, 'SETH', 'SALESMAN', 8698, '1991-02-22', 1250.00, 500.00, 30),**  **(8566, 'MAHADEVAN', 'MANAGER', 8839, '1991-04-02', 2985.00, NULL, 20),**  **(8654, 'MOMIN', 'SALESMAN', 8698, '1991-09-28', 1250.00, 1400.00, 30),**  **(8696, 'ΒΙΝΑ', 'MANAGER', 8839, '1991-05-01', 2850.00, NULL, 30),**  **(8882, 'SHIVANSH', 'MANAGER', 8839, '1991-06-09', 2450.00, NULL, 10),**  **(8888, 'SCOTT', 'ANALYST', 8566, '1992-12-09', 3000.00, NULL, 20),**  **(8839, 'AMIR', 'PRESIDENT', NULL, '1991-11-18', 5000.00, NULL, 10),**  **(8844, 'KULDEEP', 'SALESMAN', 8698, '1991-09-08', 1500.00, 0.00, 30);**  **select \* from employee;**    **# A. To display EName and Sal of employees whose salary is greater than or equal to 2200:**  **SELECT ename, sal**  **FROM employee**  **WHERE sal >= 2200;**    **# B. To display details of employees who are not getting commission:**  **SELECT \***  **FROM employee**  **WHERE comm IS NULL;**    **# C. To display employee name and salary of those employees who don’t have their salary in the range of 2500 to 4000:**  **SELECT ename, sal**  **FROM employee**  **WHERE sal NOT BETWEEN 2500 AND 4000;**    **# D. To display the name, job title, and salary of employees who don’t have a manager:**  **SELECT ename, job, sal**  **FROM employee**  **WHERE mgr IS NULL;**    **# E. To display the name of an employee whose name contains "A" as the third alphabet:**  **SELECT ename**  **FROM employee**  **WHERE SUBSTRING(ename, 3, 1) = 'A';**    **# F. To display the name of an employee whose name contains "T" as the last alphabet:**  **SELECT ename**  **FROM employee**  **WHERE RIGHT(ename, 1) = 'T';** |

1. Write a program for JDBC to connectivity and insert the below data.

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| **package** trainingtaskcompletion;  **import** java.sql.\*;  **public** **class** CreateEmployeeTable {  **public** **static** **void** main(String[] args) {  // Replace with your MySQL connection details  String url = "jdbc:mysql://localhost:3306/qabdt";  String username = "root";  String password = "Mcenroe@2024";  String createTableSQL = "CREATE TABLE IF NOT EXISTS employee (" + "empcode INT PRIMARY KEY,"  + "empname VARCHAR(255) NOT NULL," + "empage INT NOT NULL," + "esalary DECIMAL(10,2) NOT NULL" + ")";  String insertRecordsSQL = "INSERT INTO employee (empcode, empname, empage, esalary) VALUES (?, ?, ?, ?)";  **try** (Connection conn = DriverManager.*getConnection*(url, username, password)) {  System.***out***.println("Connected to database!");  // Create table (if it doesn't exist)  Statement statement = conn.createStatement();  statement.execute(createTableSQL);  System.***out***.println("Table 'employee' created (if it didn't exist).");  // Prepare statement for inserting records  PreparedStatement preparedStatement = conn.prepareStatement(insertRecordsSQL);  // Insert each record  **int**[] empCodes = { 101, 102, 103, 104, 105 };  String[] empNames = { "Jenny", "Jacky", "Joe", "John", "Shameer" };  **int**[] empAges = { 25, 30, 20, 40, 25 };  **double**[] empSalaries = { 10000.00, 20000.00, 40000.00, 80000.00, 90000.00 };  **for** (**int** i = 0; i < empCodes.length; i++) {  preparedStatement.setInt(1, empCodes[i]);  preparedStatement.setString(2, empNames[i]);  preparedStatement.setInt(3, empAges[i]);  preparedStatement.setDouble(4, empSalaries[i]);  preparedStatement.executeUpdate();  }  System.***out***.println("Records inserted successfully!");  } **catch** (SQLException e) {  System.***out***.println("Error connecting to database or creating table/inserting records!");  e.printStackTrace();  }  }  } |

***Output:-***

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