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Reg no – 20BCE2157

Modern Application Development (Java Spring Boot)

Assignment - 3

Q1. Implementing Java JDBC.

```java
import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.ResultSet;

import java.sql.Statement;


public class jdbc {

        public static void main(String args[]) {

                try {

                        Class.forName("com.mysql.cj.jdbc.Driver");



                        Connection conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/springboot", "root", "");

                        Statement stmt = conn.createStatement();

                        ResultSet rs = stmt.executeQuery("select * from customer");


                        while (rs.next()) {

                                System.out.println(rs.getString(1) + " " + rs.getString(4) + " " +
rs.getString(3));

                        }

                        conn.close();

                } catch (Exception e) {


                }

        }
```
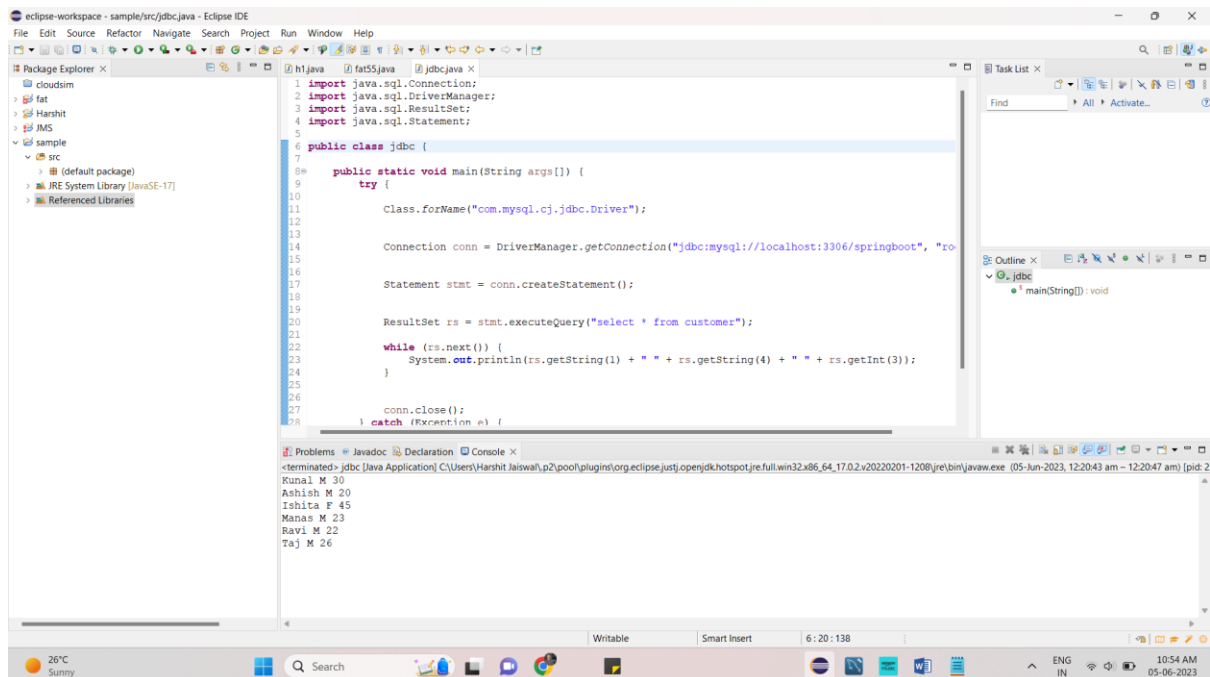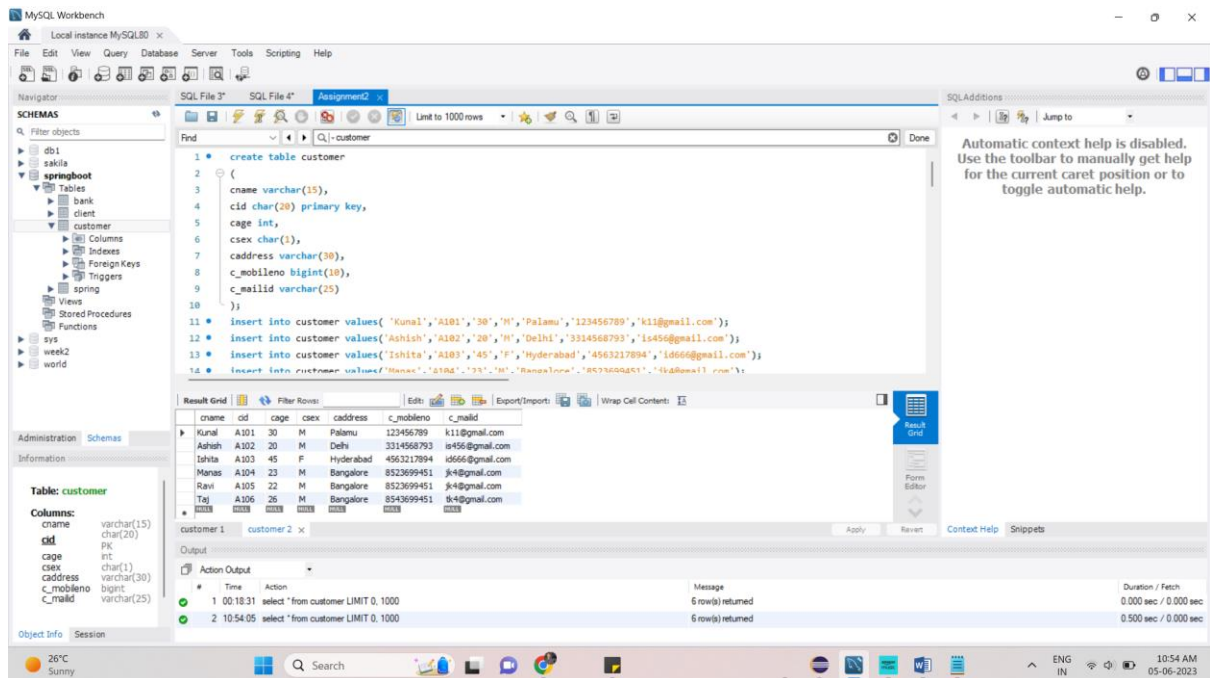
}

UPDATE

```java
package sample;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
```

```java
import java.sql.Statement;

public class jdbc_3 {

    public static void main(String args[]) {
        try {

            Class.forName("com.mysql.cj.jdbc.Driver");

            Connection conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/springboot",
"root", "");
            String QUERY = "SELECT cname, cid, cage, csex FROM
customer";

            Statement stmt = conn.createStatement();
            String sql = "UPDATE customer " +
                "SET cage = 35 WHERE cid = 'A101' ";
            stmt.executeUpdate(sql);
            ResultSet rs = stmt.executeQuery(QUERY);

            while(rs.next()){
            //Display values
            System.out.print("ID: " + rs.getString("cid"));
            System.out.print(", Age: " + rs.getInt("cage"));
            System.out.print(", Name: " + rs.getString("cname"));
            System.out.println(", Sex: " + rs.getString("csex"));
        }
        rs.close();
    } catch (Exception e) {
        e.printStackTrace();
    }
    }
    }
```
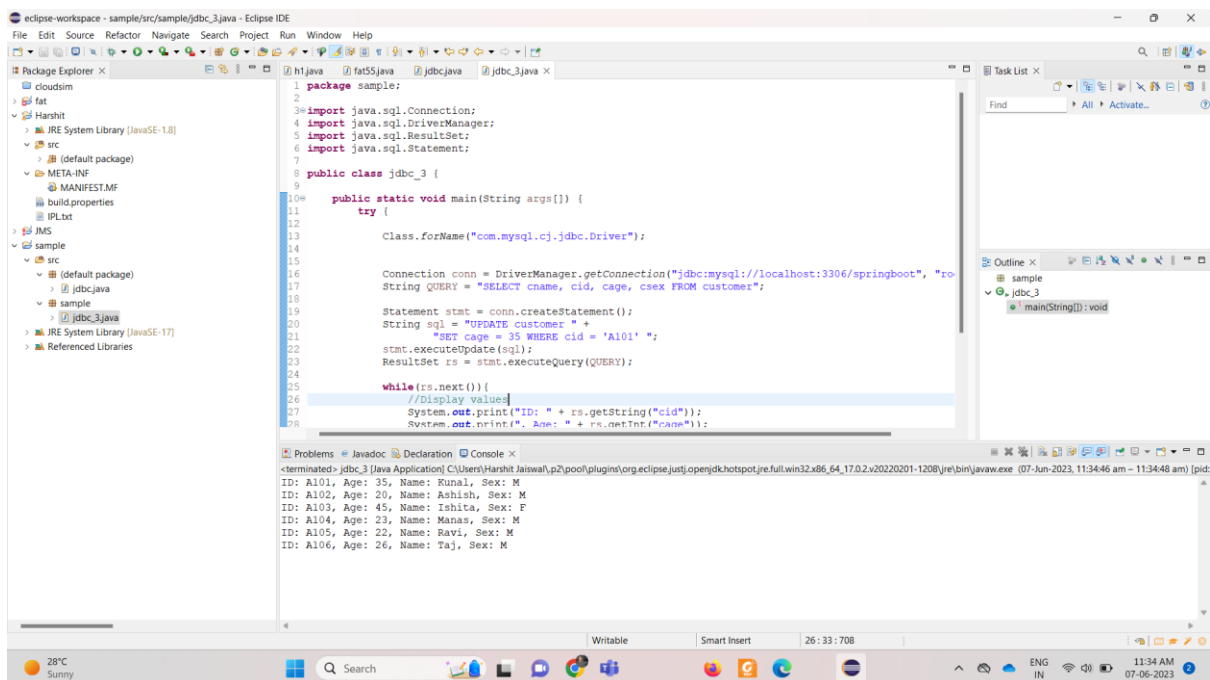
Delete

```java
package sample;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;

public class jdbc_3 {

    public static void main(String args[]) {
        try {

            Class.forName("com.mysql.cj.jdbc.Driver");


            Connection conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/springboot",
"root", "");
            String QUERY = "SELECT cname, cid, cage, csex FROM
harshit";

            Statement stmt = conn.createStatement();
            String sql = "delete from harshit" + " WHERE cid = 'A103'
";
            stmt.executeUpdate(sql);
            ResultSet rs = stmt.executeQuery(QUERY);

            while(rs.next()){
            //Display values
            System.out.print("ID: " + rs.getString("cid"));
            System.out.print(", Age: " + rs.getInt("cage"));
            System.out.print(", Name: " + rs.getString("cname"));
            System.out.println(", Sex: " + rs.getString("csex"));
            }
            rs.close();
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```
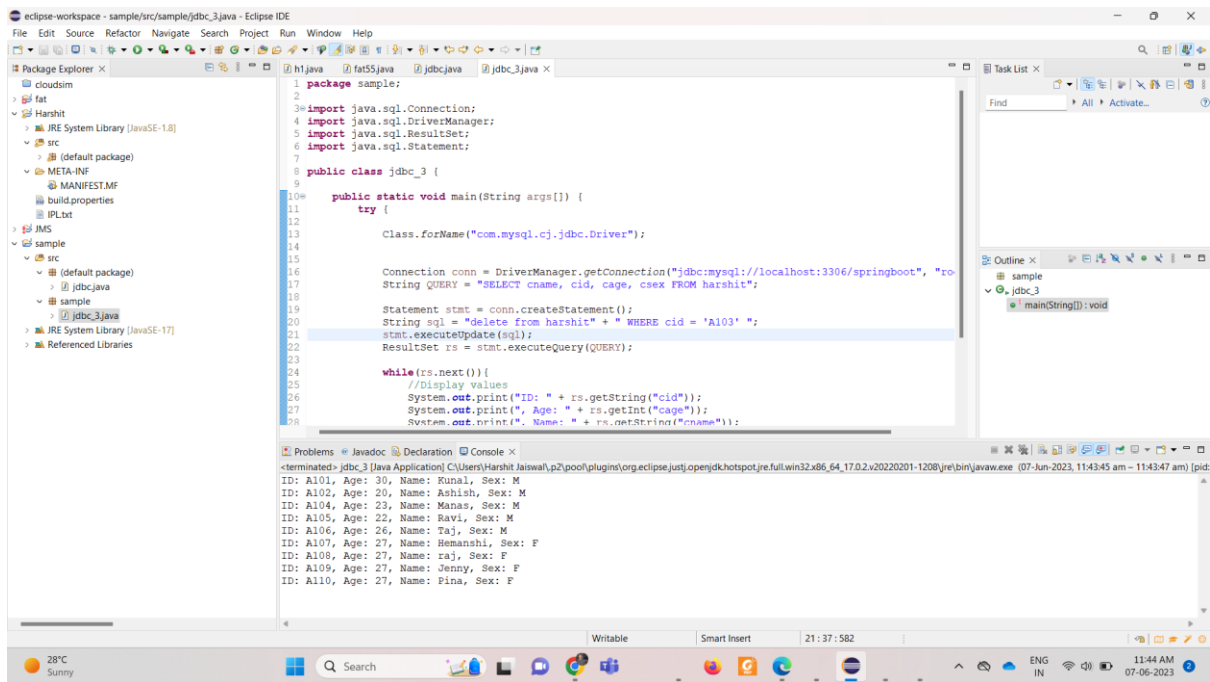
Insert

```java
package sample;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;

public class jdbc_3 {

	public static void main(String args[]) {
		try {

			Class.forName("com.mysql.cj.jdbc.Driver");


			Connection conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/springboot",
"root", "");

			Statement stmt = conn.createStatement();
			 System.out.println("Inserting records into the
table...");
			String sql = "INSERT INTO harshit VALUES ('Ali', 'A111', 28
, 'M','Bangalore',9554411223,'har@123')";
			stmt.executeUpdate(sql);
			sql = "INSERT INTO harshit VALUES ('Fatma','A112', '29',
'F','london',9534422334,'far@123')";
			stmt.executeUpdate(sql);
			sql = "INSERT INTO harshit VALUES ('Khan','A113', '31',
'M','newyork',9324433445,'kar@123')";
			stmt.executeUpdate(sql);
```

```java
            sql = "INSERT INTO harshit VALUES('Mittal','A114', '33',
'M','chennai',9354444556,'mar@123')";
            stmt.executeUpdate(sql);
            System.out.println("Inserted records into the table...");

        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```