ASSIGNMENT-3

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Regno : 20BCI7119

Q) Implement Java Assignment for Java JDBC using java

Creating Database in mysql

```
mysql> create database jdbcdb;
Query OK, 1 row affected (0.01 sec)
```

Creating Table

```
mysql> Create table emp (emp_id int, empname varchar(10), email varchar(30), city varchar(10));
Query OK, 0 rows affected (0.02 sec)
```

Describing Emp table

```
mysql> desc emp;
+---------+-------------+------+-----+---------+-------+
| Field   | Type        | Null | Key | Default | Extra |
+---------+-------------+------+-----+---------+-------+
| emp_id  | int         | YES  |     | NULL    |       |
| empname | varchar(10) | YES  |     | NULL    |       |
| email   | varchar(30) | YES  |     | NULL    |       |
| city    | varchar(10) | YES  |     | NULL    |       |
+---------+-------------+------+-----+---------+-------+
4 rows in set (0.02 sec)
```

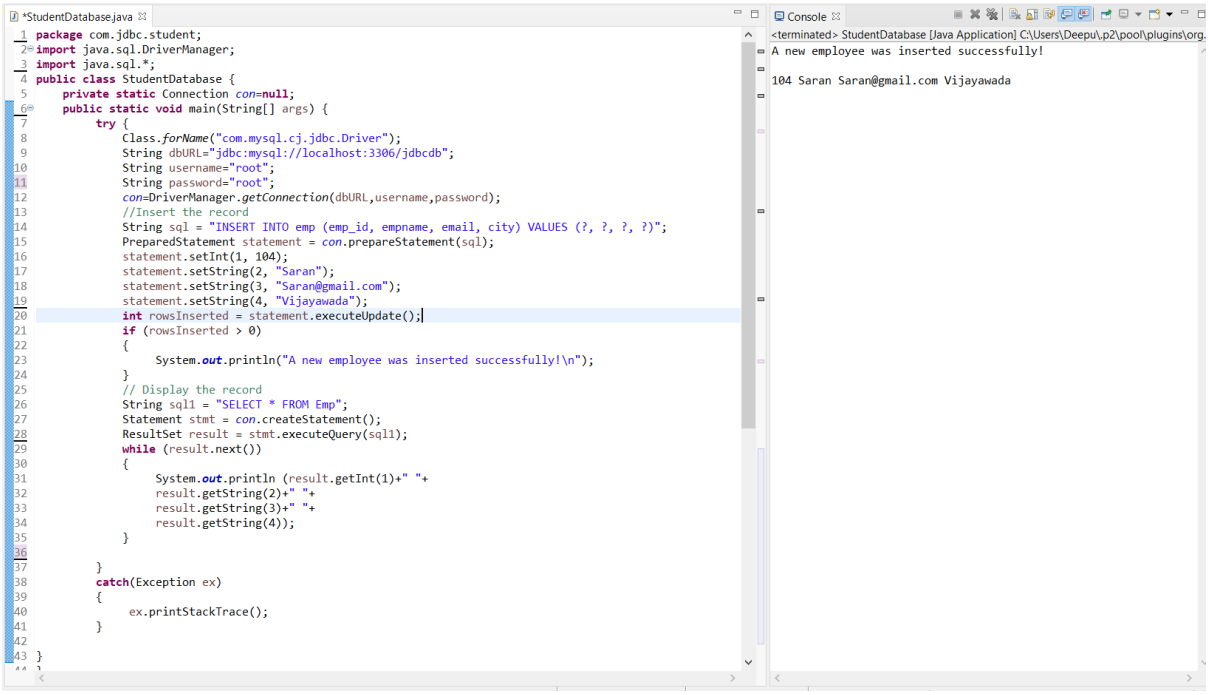
Inserting the Record into table;

Code:

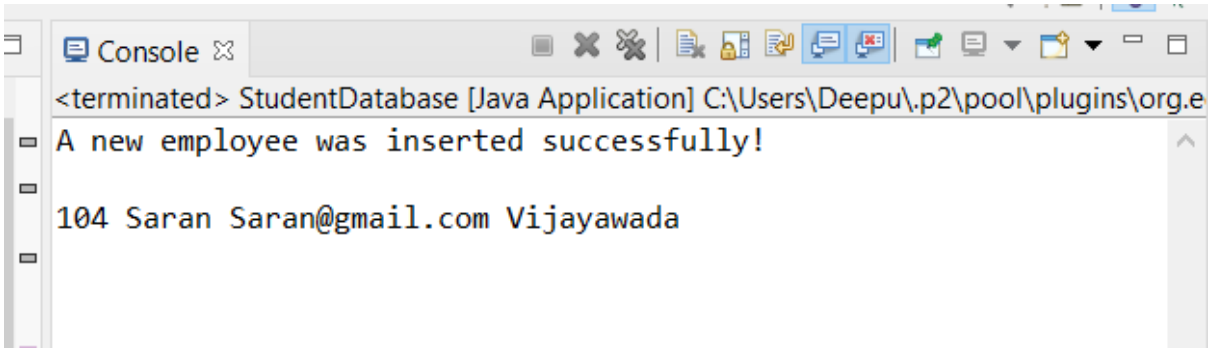
```
package com.jdbc.student;
import java.sql.DriverManager;
import java.sql.*;
public class StudentDatabase {
	private static Connection con=null;
	public static void main(String[] args) {
		try {
			Class.forName("com.mysql.cj.jdbc.Driver");
			String dbURL="jdbc:mysql://localhost:3306/jdbcdb";
			String username="root";
			String password="root";
			con=DriverManager.getConnection(dbURL,username,password);
			//Insert the record
		String sql = "INSERT INTO emp (emp_id, empname, email, city) VALUES
(?, ?, ?, ?)";
		PreparedStatement statement = con.prepareStatement(sql);
		statement.setInt(1, 104);
```

```
                statement.setString(2, "Saran");
                statement.setString(3, "Saran@gmail.com");
                statement.setString(4, "Vijayawada");
                int rowsInserted = statement.executeUpdate();
                if (rowsInserted > 0)
                {
                     System.out.println("A new employee was inserted
successfully!\n");
                }
                // Display the record
                String sql1 = "SELECT * FROM Emp";
                Statement stmt = con.createStatement();
                ResultSet result = stmt.executeQuery(sql1);
                while (result.next())
                {
                     System.out.println (result.getInt(1)+" "+
                     result.getString(2)+" "+
                     result.getString(3)+" "+
                     result.getString(4));
                }

                 }
                 catch(Exception ex)
          {
                 ex.printStackTrace();
          }

}
}
```

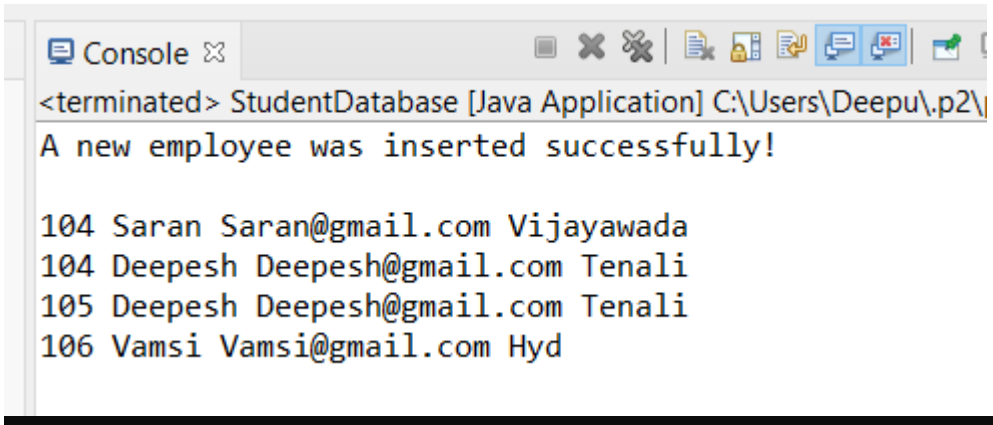
Screenshot:



Output:



Inserting More rows:




```
mysql> select * from emp;
+--------+---------+-------------------+------------+
| emp_id | empname | email             | city       |
+--------+---------+-------------------+------------+
|    104 | Saran   | Saran@gmail.com   | Vijayawada |
|    104 | Deepesh | Deepesh@gmail.com | Tenali     |
|    105 | Deepesh | Deepesh@gmail.com | Tenali     |
|    106 | Vamsi   | Vamsi@gmail.com   | Hyd        |
+--------+---------+-------------------+------------+
4 rows in set (0.00 sec)
```

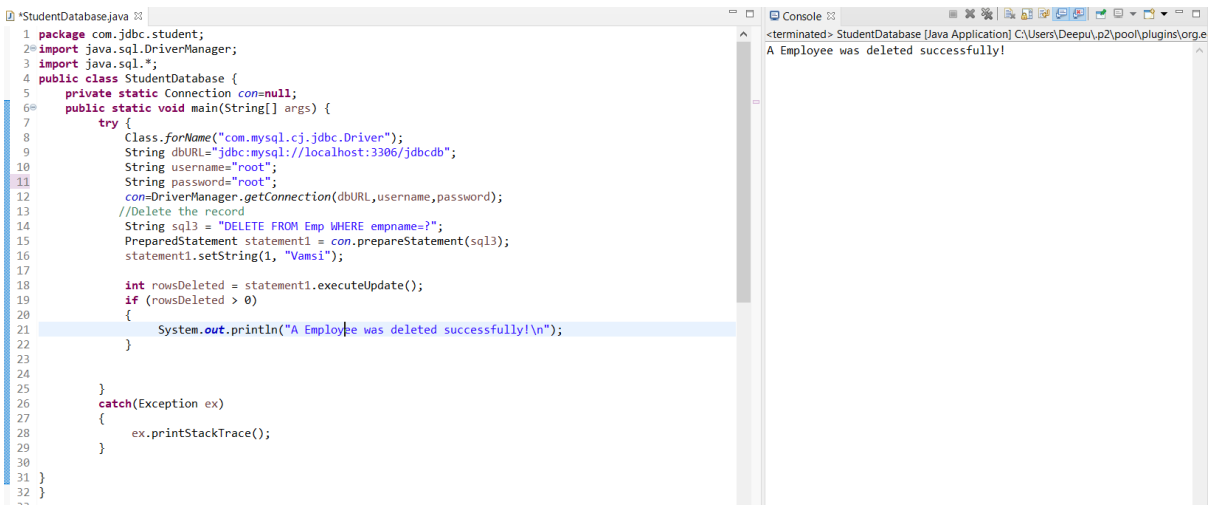
Deleting a record From Table:

Deleting a record from emp table wher empname is Vamsi

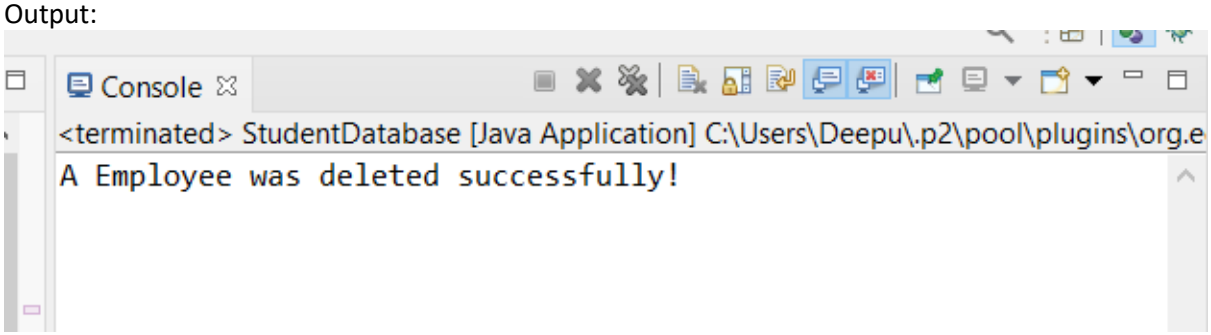
Code:

```
package com.jdbc.student;
import java.sql.DriverManager;
import java.sql.*;
public class StudentDatabase {
	private static Connection con=null;
	public static void main(String[] args) {
		try {
			Class.forName("com.mysql.cj.jdbc.Driver");
			String dbURL="jdbc:mysql://localhost:3306/jdbcdb";
			String username="root";
			String password="root";
			con=DriverManager.getConnection(dbURL,username,password);
		       //Delete the record
			String sql3 = "DELETE FROM Emp WHERE empname=?";
			PreparedStatement statement1 = con.prepareStatement(sql3);
			statement1.setString(1, "Vamsi");

			int rowsDeleted = statement1.executeUpdate();
			if (rowsDeleted > 0)
			{
				System.out.println("A Employee was deleted
successfully!\n");
			}


		}
		catch(Exception ex)
	{
		ex.printStackTrace();
	}

}
}
```

Screenshot:



Output:




```
mysql> select * from emp;
+--------+---------+-------------------+------------+
| emp_id | empname | email             | city       |
+--------+---------+-------------------+------------+
|    104 | Saran   | Saran@gmail.com   | Vijayawada |
|    104 | Deepesh | Deepesh@gmail.com | Tenali     |
|    105 | Deepesh | Deepesh@gmail.com | Tenali     |
+--------+---------+-------------------+------------+
3 rows in set (0.00 sec)
```

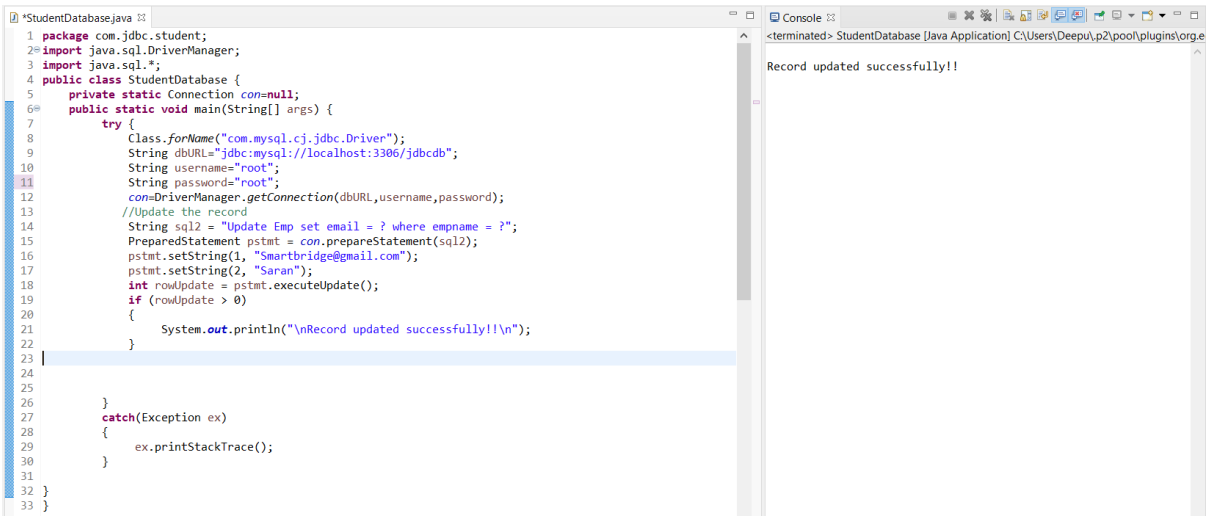
Updating The Records:

Updating the email of Saran(empname)

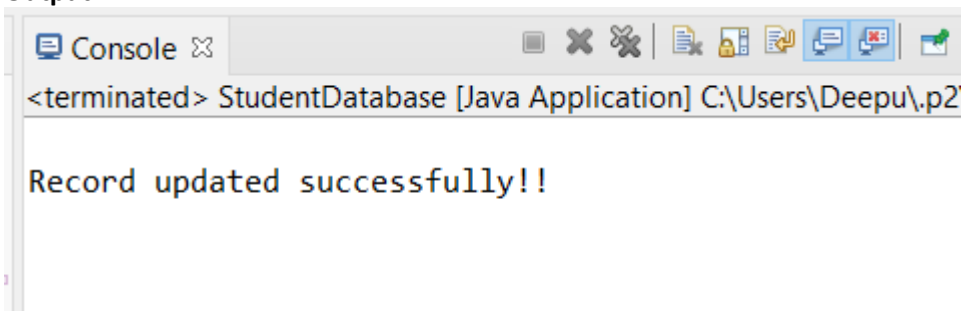
Code:

```
package com.jdbc.student;
import java.sql.DriverManager;
import java.sql.*;
public class StudentDatabase {
	private static Connection con=null;
	public static void main(String[] args) {
		try {
			Class.forName("com.mysql.cj.jdbc.Driver");
			String dbURL="jdbc:mysql://localhost:3306/jdbcdb";
			String username="root";
			String password="root";
			con=DriverManager.getConnection(dbURL,username,password);
		       //Update the record
			String sql2 = "Update Emp set email = ? where empname = ?";
			PreparedStatement pstmt = con.prepareStatement(sql2);
			pstmt.setString(1, "Smartbridge@gmail.com");
			pstmt.setString(2, "Saran");
			int rowUpdate = pstmt.executeUpdate();
			if (rowUpdate > 0)
			{
				System.out.println("\nRecord updated successfully!!\n");
			}



		}
		catch(Exception ex)
	    {
			ex.printStackTrace();
	    }

}
}
```

Screenshot:



Output:




```
mysql> select * from emp;
+--------+---------+-----------------------+------------+
| emp_id | empname | email                 | city       |
+--------+---------+-----------------------+------------+
|    104 | Saran   | Smartbridge@gmail.com | Vijayawada |
|    104 | Deepesh | Deepesh@gmail.com     | Tenali     |
|    105 | Deepesh | Deepesh@gmail.com     | Tenali     |
+--------+---------+-----------------------+------------+
3 rows in set (0.00 sec)
```