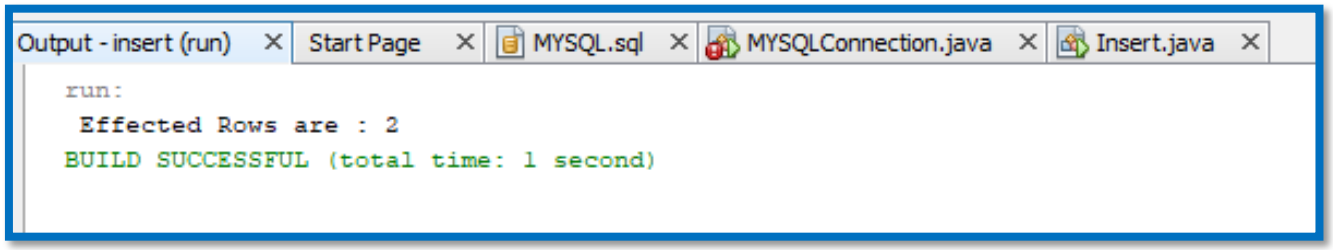
CS408: Data Warehousing

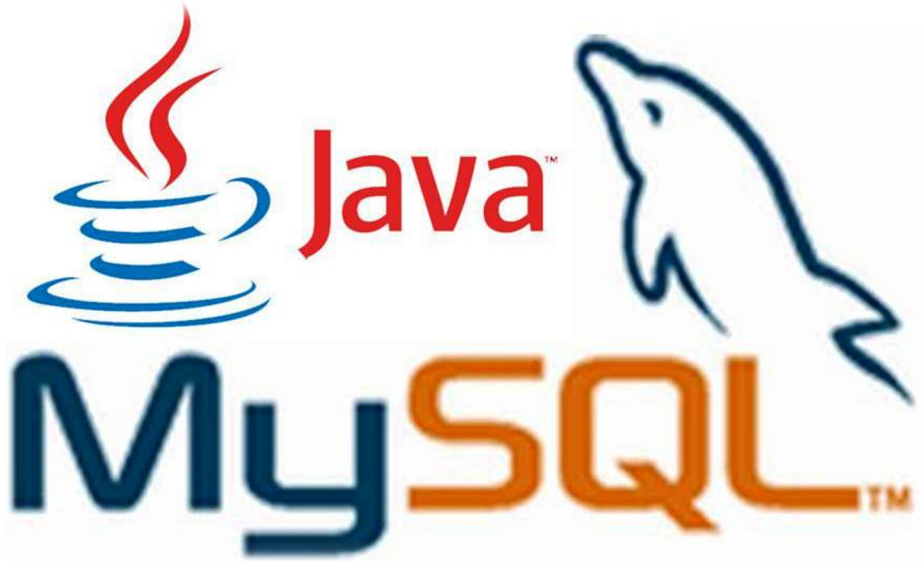
Lab # 13: Java Connection with MYSQL (Insert, Update and Delete data from connected warehouse)

- **Insert Records in City Table of the World Schema using JAVA as follows:**

```
package insert;
import java.sql.*;

public class Insert {
    public static void main(String[] args) {
      Connection myconn = null;
      Statement st =null;
      String user ="root";
      String pass="1234";
      try {
    myconn = DriverManager.getConnection("jdbc:mysql://localhost:3306/", user , pass);
    st = myconn.createStatement();

    int r = st.executeUpdate("INSERT INTO world.city "+"VALUES (9001, 'RWP','PAK', 'ABCD' ,19290)"
            + "," + "(9002, 'ISB','PAK', 'ABCD' ,69290)");
    System.out.println(" Effected Rows are : " + r);
    myconn.close();}

        catch (Exception e){
    System.err.println("Got an exception!");
    System.err.println(e.getMessage());
    }}}
```

OUTPUT

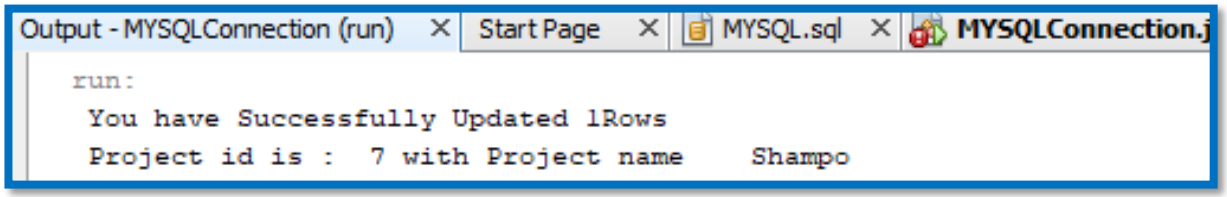

Output - insert (run)
Start Page
MYSQL.sql
MYSQLConnection.java
Insert.java
run:
Effected Rows are : 2
BUILD SUCCESSFUL (total time: 1 second)


Java
MySQL

Update Dimension in MYSQL using Java NetBeans.

```
public class MYSQLConnection {
    public static void main(String[] args) {
      Connection myconn = null;
      PreparedStatement mystmt =  null;
      Statement state =null;
      ResultSet myRs = null;

      String user ="root";
      String pass="1234";
      try {
          myconn = DriverManager.getConnection("jdbc:mysql://localhost:3306/", user , pass);
              // execute the java preparedstatement
          String query = "update target.project_dim set target.project_dim.project_name = ? where target.project_dim.project_id = ?";
          mystmt = myconn.prepareStatement(query);
          mystmt.setString(1  ,"Shampo");
          mystmt.setInt   (2, 7);
          int r = mystmt.executeUpdate();
          mystmt.close();
          if(r!=0)
              System.out.println(" You have Successfully Updated " + r +"Rows");

          // After Updation
          state = myconn.createStatement();
          myRs = state.executeQuery(" select * from target.project_dim a where a.project_id = 7 ");
          while (myRs.next())          {
              System.out.println(" Project id is :  " + myRs.getString("project_id") + " with Project name "+ myRs.getString("project_na
          }}
      catch(Exception exc){
          exc.printStackTrace();}
```

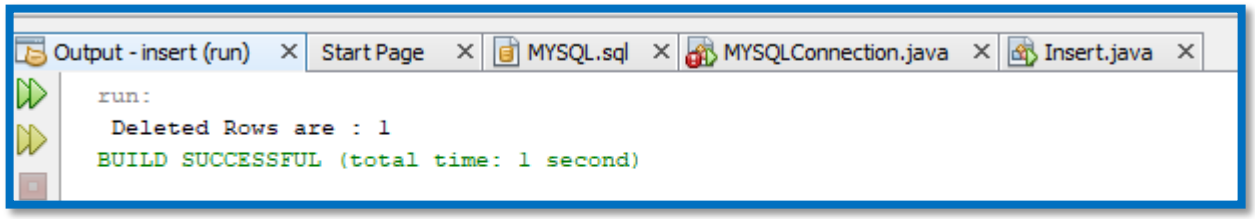
Output:



➢ **Delete Records in City Table of the World Schema using JAVA as follows:**

```
package insert;
import java.sql.*;

public class Insert {
    public static void main(String[] args) {
      Connection myconn = null;
      PreparedStatement mystmt =null;
      String user ="root";
      String pass="1234";
      try {
    myconn = DriverManager.getConnection("jdbc:mysql://localhost:3306/", user , pass);
    int x = 9001;
    String Query = " Delete from world.city where ID = ? ";
    mystmt = myconn.prepareStatement(Query);
    mystmt.setInt(1, x);
    int r = mystmt.executeUpdate();
    System.out.println(" Deleted Rows are : " + r);
    myconn.close();
      }
      catch (Exception e){
    System.err.println("Got an exception!");
    System.err.println(e.getMessage());
    }}}
```

OUTPUT



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LAB TASKS

TASK 1: Create a Java file that Insert new Record in an Employee Dimension from MYSQL Datawarehouse. All values of the record should be Entered by user at run time. "Successful insertion "message should be display on the screen. Kindly attached the screenshot of the output and newly inserted record from MYSQL as well in the word document.

TASK2: Create JAVA file that update the Department Record (All fields) on the basis of Department ID entered by the user. Your program should display Data before and after Updating with proper manner.

TASK 3: Create Java_file which receive Product_ID from the user and delete the record from the product dimension on basis of received inputs and output the following message "Record Deleted "on the Screen after deletion.

Note:
Submission: Create ZIP to include word file (contain all screenshot of above 3 tasks) and your java file. Format should be: Name_RollNo_Sec e.g. Ahmed_18i1234_A.zip (50 % Marks will be deducted in case of violation).