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Following is the example which makes use of following three queries along with or statment:

boolean execute(String SQL): Returns a boolean value of true if a Resul retrieved; otherwise, it returns false. Use this method to execute SQL DDL s you need to use truly dynamic SQL.

int executeUpdate(String SQL): Returns the numbers of rows affected by the SQL statement. Use this method to execute SQL statements for which you number of rows affected - for example, an INSERT, UPDATE, or DELETE state

ResultSet executeQuery(String SQL): Returns a ResultSet object. Use this expect to get a result set, as you would with a SELECT statement.

This sample code has been written based on the environment and database setu chapters.

Copy and past following example in JDBCExample.java, compile and run as follows

```
//STEP 1. Import required packages
import java. sql. *;
public class JDBCExample {
  // JDBC driver name and database URL
  static final String JDBC_DRIVER = "com.mysql.jdbc.Driver";
  static final String DB_URL = "jdbc:mysql://localhost/EMP";
  // Database credentials
  static final String USER = "username";
  static final String PASS = "password";
  public static void main(String[] args) {
  Connection conn = null;
  Statement stmt = null:
      //STEP 2: Register JDBC driver
     Class. forName ("com. mysql. jdbc. Driver");
     //STEP 3: Open a connection
     System.out.println("Connecting to database...");
     conn = DriverManager.getConnection(DB_URL, USER, PASS);
     //STEP 4: Execute a query
     System.out.println("Creating statement...");
     stmt = conn.createStatement();
     String sql = "UPDATE Employees set age=30 WHERE id=103";
     // Let us check if it returns a true Result Set or not.
     Boolean ret = stmt. execute(sql);
```

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```
System.out.println("Return value is : " + ret.toString() );
     // Let us update age of the record with ID = 103;
     int rows = stmt.executeUpdate(sql);
     System.out.println("Rows impacted : " + rows );
     // Let us select all the records and display them.
     sql = "SELECT id, first, last, age FROM Employees";
     ResultSet rs = stmt.executeQuery(sql);
     //STEP 5: Extract data from result set
     while (rs. next()) {
        //Retrieve by column name
        int id = rs.getInt("id");
        int age = rs.getInt("age");
        String first = rs.getString("first");
        String last = rs.getString("last");
        //Display values
        System.out.print("ID: " + id);
        System.out.print(", Age: " + age);
        System.out.print(", First: " + first);
        System.out.println(", Last: " + last);
     //STEP 6: Clean-up environment
     rs. close();
     stmt.close();
     conn. close();
  }catch (SQLException se) {
     //Handle errors for JDBC
     se.printStackTrace();
  }catch(Exception e) {
     //Handle errors for Class.forName
     e. printStackTrace();
  }finally {
     //finally block used to close resources
     try
         if (stmt!=null)
           stmt.close();
     }catch(SQLException se2) {
     }// nothing we can do
     try {
         if (conn!=null)
           conn. close();
     }catch(SQLException se) {
        se.printStackTrace();
     }//end finally try
  }//end try
  System.out.println("Goodbye!");
}//end main
}//end JDBCExample
```

Now let us compile above example as follows:

```
C:\>javac JDBCExample.java
C:\>
```

When you run **JDBCExample**, it produces following result:

```
C:\>java JDBCExample
Connecting to database...
Creating statement...
Return value is: false
Rows impacted: 1
ID: 100, Age: 18, First: Zara, Last: Ali
ID: 101, Age: 25, First: Mahnaz, Last: Fatma
ID: 102, Age: 30, First: Zaid, Last: Khan
ID: 103, Age: 30, First: Sumit, Last: Mittal
Goodbye!
```

C:\>

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