```java

import java.sql.*;

public class JDBCDemo {

    public static void main(String[] args) throws Exception {
        batchdemo();
    }

    //simple read from db and display results
    public static void readRecords() throws Exception{
        String url = "jdbc:mysql://localhost:3306/jdbcdemo";
        String userName = "root";
        String passWord = "Tnpsc@2019";
        String query = "select * from employee";


        Connection con = DriverManager.getConnection(url,userName,passWord);
        Statement st = con.createStatement();
        ResultSet rs = st.executeQuery(query);

        while(rs.next()) {
            System.out.println("Id is " + rs.getInt(1));
            System.out.println("Name is " + rs.getString(2));
            System.out.println("Salary is " + rs.getInt(3));
        }

        con.close();
    }


    //insert query
    public static void insertRecord() throws Exception{
        String url = "jdbc:mysql://localhost:3306/jdbcdemo";
        String userName = "root";
        String passWord = "Tnpsc@2019";
        String query = "insert into employee values (4,'Naveenkumar',400000)";


        Connection con = DriverManager.getConnection(url,userName,passWord);
        Statement st = con.createStatement();
        int rows = st.executeUpdate(query);

        System.out.println("Number of rows affected: " + rows);
        con.close();
    }


    //insert with variables
    public static void insertVar() throws Exception{
        String url = "jdbc:mysql://localhost:3306/jdbcdemo";
        String userName = "root";
        String passWord = "Tnpsc@2019";

        int id=5;
        String name = "keerthana";
        int salary = 500000;
```

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58
59          // "insert into employee values(5,'keethana',500000);"
60          String query = "insert into employee values (" + id + ",'" + name + "'," + salary +
    ");";
61
62
63          Connection con = DriverManager.getConnection(url,userName,passWord);
64          Statement st = con.createStatement();
65          int rows = st.executeUpdate(query);
66
67          System.out.println("Number of rows affected: " + rows);
68          con.close();
69      }
70
71
72      //insert with prepared statement
73      public static void insertUsingPst() throws Exception{
74          String url = "jdbc:mysql://localhost:3306/jdbcdemo";
75          String userName = "root";
76          String passWord = "Tnpsc@2019";
77
78          int id=6;
79          String name = "Avaneesh";
80          int salary = 600000;
81
82          // "insert into employee values(5,'varun',300000);"
83          String query = "insert into employee values (?,?,?);";
84
85
86          Connection con = DriverManager.getConnection(url,userName,passWord);
87
88          PreparedStatement pst = con.prepareStatement(query);
89          pst.setInt(1, id);
90          pst.setString(2, name);
91          pst.setInt(3, salary);
92          int rows = pst.executeUpdate();
93
94          System.out.println("Number of rows affected: " + rows);
95          con.close();
96
97      }
98
99
100     //delete
101     public static void delete() throws Exception{
102         String url = "jdbc:mysql://localhost:3306/jdbcdemo";
103         String userName = "root";
104         String passWord = "Tnpsc@2019";
105
106         int id=5;
107
108         String query = "delete from employee where emp_id = " + id;
109
110
111         Connection con = DriverManager.getConnection(url,userName,passWord);
112         Statement st = con.createStatement();
113         int rows = st.executeUpdate(query);
```

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114
115         System.out.println("Number of rows affected: " + rows);
116         con.close();
117     }
118
119
120     //update
121     public static void update() throws Exception{
122         String url = "jdbc:mysql://localhost:3306/jdbcdemo";
123         String userName = "root";
124         String passWord = "Tnpsc@2019";
125
126
127         String query = "update employee set salary = 250000 where emp_id=1";
128
129
130         Connection con = DriverManager.getConnection(url,userName,passWord);
131         Statement st = con.createStatement();
132         int rows = st.executeUpdate(query);
133
134         System.out.println("Number of rows affected: " + rows);
135         con.close();
136     }
137
138
139     //Types of statement
140     //normal statement
141     //prepared statement
142     //callable statement call GetEmp()
143
144     //calling simple stored procedure
145     public static void sp() throws Exception{
146         String url = "jdbc:mysql://localhost:3306/jdbcdemo";
147         String userName = "root";
148         String passWord = "Tnpsc@2019";
149
150         Connection con = DriverManager.getConnection(url,userName,passWord);
151         CallableStatement cst = con.prepareCall("{call GetEmp()}");
152         ResultSet rs = cst.executeQuery();
153
154         while(rs.next()) {
155             System.out.println("Id is " + rs.getInt(1));
156             System.out.println("Name is " + rs.getString(2));
157             System.out.println("Salary is " + rs.getInt(3));
158         }
159
160         con.close();
161     }
162
163
164     //calling stored procedure with input parameter
165     public static void sp2() throws Exception{
166         String url = "jdbc:mysql://localhost:3306/jdbcdemo";
167         String userName = "root";
168         String passWord = "Tnpsc@2019";
169         int id = 3;
170         Connection con = DriverManager.getConnection(url,userName,passWord);
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171         CallableStatement cst = con.prepareCall("{call GetEmpById(?)}");
172         cst.setInt(1, id);
173         ResultSet rs = cst.executeQuery();
174 
175         while(rs.next()) {
176             System.out.println("Id is " + rs.getInt(1));
177             System.out.println("Name is " + rs.getString(2));
178             System.out.println("Salary is " + rs.getInt(3));
179         }
180 
181         con.close();
182     }
183 
184 
185 //    //calling stored procedure with in and out parameter
186 //  public static void sp3() throws Exception{
187 //      String url = "jdbc:mysql://localhost:3306/jdbcdemo";
188 //      String userName = "root";
189 //      String passWord = "Tnpsc@2019";
190 //      int id = 3;
191 //      Connection con = DriverManager.getConnection(url,userName,passWord);
192 //      CallableStatement cst = con.prepareCall("{call GetNameById(?,?)}");
193 //      cst.setInt(1, id);
194 //      cst.registerOutParameter(2, Types.VARCHAR);
195 //
196 //      cst.executeUpdate();
197 //
198 //      System.out.println(cst.getString(2));
199 //
200 //      con.close();
201 //  }
202 //
203 
204 
205     //commit vs autocommit
206     public static void commitdemo() throws Exception{
207         String url = "jdbc:mysql://localhost:3306/jdbcdemo";
208         String userName = "root";
209         String passWord = "Tnpsc@2019";
210 
211         String query1 = "update employee set salary = 550000 where emp_id=1";
212         String query2 = "update employee set salary = 550000 where emp_id=2";
213 
214         Connection con = DriverManager.getConnection(url,userName,passWord);
215         con.setAutoCommit(false);
216         Statement st = con.createStatement();
217         int rows1 = st.executeUpdate(query1);
218         System.out.println("Rows affected " + rows1);
219 
220         int rows2 = st.executeUpdate(query2);
221         System.out.println("Rows affected " + rows2);
222 
223         if(rows1>0 && rows2>0)
224             con.commit();
225 
226         con.close();
227 
```

```
228     }
229
230
231     //batch processing
232
233     public static void batchdemo() throws Exception{
234         String url = "jdbc:mysql://localhost:3306/jdbcdemo";
235         String userName = "root";
236         String passWord = "Tnpsc@2019";
237
238         String query1 = "update employee set salary = 300000 where emp_id=1";
239         String query2 = "update employee set salary = 300000 where emp_id=2";
240         String query3 = "update employee set salary = 300000 where emp_id=3";
241         String query4 = "update employee set salary = 300000 where emp_id=4";
242
243         Connection con = DriverManager.getConnection(url,userName,passWord);
244         con.setAutoCommit(false);
245         Statement st = con.createStatement();
246         st.addBatch(query1);
247         st.addBatch(query2);
248         st.addBatch(query3);
249         st.addBatch(query4);
250
251         int[] res = st.executeBatch();
252
253         for(int i: res) {
254             if(i>0)
255                 continue;
256             else
257                 con.rollback();
258         }
259         con.commit();
260         con.close();
261
262     }
263 }
264
265
```