

JDBC PROGRAMS

1) *Write a JDBC program to display the details of employees (eno, ename, department, sal) whose department is BBA[CA].*

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

public class Employee {

    public static void main(String[] args) {

        try {
            Class.forName("com.mysql.jdbc.Driver");
            Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/b56","root","root");
            Statement stmt=con.createStatement();
            String sql= "select * from employees where department='BBACA'";

            ResultSet rs=stmt.executeQuery(sql);
            while(rs.next())
            {
                System.out.println("\n");
                System.out.println("\t" +rs.getInt(1));
                System.out.println("\t" +rs.getString(2));
                System.out.println("\t" +rs.getString(3));
                System.out.println("\t" +rs.getInt(4));
            }
        }
        catch(Exception e) {
            System.out.print(e);
        }
    }
}
```

=====

2) *Write a java program to create Teacher table(TNo.TName, Sal, Desg) and insert a record in it.*

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

public class Teacher {

    public static void main(String[] args) {

        try {
            Class.forName("com.mysql.jdbc.Driver");
            Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/b56","root","root");
            Statement stmt=con.createStatement();
            String sql= "insert into teacher values(2,'Patil Mam',50000,'HOD')";
            stmt.executeUpdate(sql);
            System.out.print("Values Inserted Sucessfully");
        }
        catch(Exception e) {
```

```
51  System.out.print(e);
52  }
53  }
54  }
55  =====
56  3) Write a JDBC program to delete the records of employees whose names are starts with 'a' character.
57  import java.sql.Connection;
58  import java.sql.DriverManager;
59  import java.sql.Statement;
60  public class Delete {
61
62  public static void main(String[] args) {
63
64  try {
65  Class.forName("com.mysql.jdbc.Driver");
66  Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/b56","root","root");
67  Statement stmt=con.createStatement();
68  String sql=("delete from employees where ename like 'a%'");
69  stmt.executeUpdate(sql);
70  System.out.print("Value Deleted Sucessfully");
71  }
72  catch(Exception e) {
73  System.out.print(e);
74  }
75  }
76  }
77  =====
78  4) Write a JDBC program to count the number of records in table.
79  import java.sql.ResultSet;
80  import java.sql.Connection;
81  import java.sql.DriverManager;
82  import java.sql.Statement;
83  public class Count {
84
85  public static void main(String[] args) {
86  // TODO Auto-generated method stub
87  try {
88  Class.forName("com.mysql.jdbc.Driver");
89  Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/b56","root","root");
90  Statement stmt=con.createStatement();
91  String sql = "select count(tno) from teacher";
92  ResultSet rs = stmt.executeQuery(sql);
93  while(rs.next()) {
94  System.out.println(rs.getInt(1));
95  }
96  }
97  catch(Exception e) {
98  System.out.print(e);
99  }
100 }
101 }
```

```
102 =====
103 5) Write a java program to create a student table with field's rno, name and per. Insert values in the table. Display all
104 the details of the student on screen. (Use PreparedStatement Interface).
105
106 import java.sql.*;
107 import java.util.Scanner;
108 public class student {
109
110     public static void main(String[] args) {
111         // TODO Auto-generated method stub
112         PreparedStatement ps;
113         try
114         {
115             int per,rno,no;
116             String name;
117             Scanner sc = new Scanner(System.in);
118             Class.forName("com.mysql.cj.jdbc.Driver");
119             Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/b56","root","root");
120             Statement stmt=con.createStatement();
121             String sql="create table student1(rno INT, "+"name varchar(30), "+"per INT);";
122             stmt.executeUpdate(sql);
123             System.out.println("given table created in database");
124             String query="insert into student1 values(?,?,?)";
125             ps=con.prepareStatement(query);
126             System.out.println("Enter roll no : ");
127             rno=sc.nextInt();
128             System.out.println("Enter name : ");
129             name=sc.nextLine();
130             System.out.println("Enter per : ");
131             per=sc.nextInt();
132             ps.setInt(1,rno);
133             ps.setString(2,name);
134             ps.setInt(3,per);
135             no=ps.executeUpdate();
136             if(no!=0)
137                 System.out.println("Data inserted succesfully.....");
138             else
139                 System.out.println("Data not inserted");
140             ResultSet rs=stmt.executeQuery("select * from Student1");
141             System.out.println("rno\t"+"sname\t"+"perc");
142             while(rs.next())
143             {
144                 System.out.println("\n"+rs.getInt(1)+"\t"+rs.getString(2)+"\t"+rs.getInt(3));
145             }
146             con.close();
147         }
148         catch(Exception e)
149         {
150             System.out.println(e);
151         }
152     }
```

```
153 }
154 =====
155 6)Write a JDBC program to remove “percentage” column from student (rno, sname, percentage) table. Student table
156 is already created.
157 package javaprograms;
158
159 import java.sql.Connection;
160 import java.sql.DriverManager;
161 import java.sql.Statement;
162
163 public class percentage {
164
165     public static void main(String[] args) {
166         // TODO Auto-generated method stub
167         try {
168             Class.forName("com.mysql.jdbc.Driver");
169             Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/b56","root","root");
170             Statement stmt = con.createStatement();
171             String str = "ALTER TABLE student DROP COLUMN percentage;";
172             stmt.executeUpdate(str);
173             System.out.println("column deleted...");
174         }
175         catch(Exception e) {
176             System.out.println(e);
177         }
178     }
179 }
180 =====
181 7) Write a JDBC program to accept the details of customer (CID, CName, Address, Ph_No) and store it into the
182 database (Use Prepared Statement interface)
183 import java.util.Scanner;
184 import java.sql.*;
185 public class Custtable {
186     public static void main(String[] args) {
187         // TODO Auto-generated method stub
188         PreparedStatement ps;
189         try
190             {
191                 int cid,no;
192                 String cname,caddr,pno;
193                 Scanner sc = new Scanner(System.in);
194                 Class.forName("com.mysql.jdbc.Driver");
195                 Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/b56","root","root");
196                 if(con==null)
197                 {
198                     System.out.print("Connection Failed");
199                 }
200                 String sql="insert into Customer1 values(?,?,?,?)";
201                 ps=con.prepareStatement(sql);
202                 System.out.println("Customer Details....");
203                 System.out.println("Enter Cid");
```

```
204     cid=sc.nextInt();
205     ps.setInt(1, cid);
206     System.out.println("Enter Cname");
207     cname=sc.nextLine();
208     ps.setString(2, cname);
209     System.out.println("Enter Pno");
210     pno=sc.nextLine();
211     ps.setString(3, pno);
212     System.out.println("Enter Caddr");
213     caddr=sc.nextLine();
214     ps.setString(4, caddr);
215     no=ps.executeUpdate();
216     if(no!=0)
217         System.out.println("Record added successfully");
218     else
219         System.out.println("Record Not added");
220     con.close();
221     }catch(Exception e)
222     {
223         System.out.println(e);
224     }
225 }
226 }
227 =====
228 8) Write a JDBC program in java to update an address of given customer(CID, CName, Address) and display updated details.
229
230 package javaprograms;
231
232 import java.sql.Connection;
233 import java.sql.DriverManager;
234 import java.sql.Statement;
235
236 public class upaddcust {
237
238     public static void main(String[] args) {
239         try {
240             Class.forName("com.mysql.jdbc.Driver");
241             Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/b56","root","root");
242             Statement stmt = con.createStatement();
243             String str = " update customer set Caddress='phaltan' where Cid=101;";
244             stmt.executeUpdate(str);
245             System.out.println("updated address..");
246         }
247         catch(Exception e) {
248             System.out.println(e);
249         }
250     }
251 }
252 9) Write a JDBC program to create a Mobile (Model_No, Company_Name, Price, Color) table and insert a record in it.
253 import java.sql.Connection;
254 import java.sql.DriverManager;
```

```
255 import java.sql.Statement;
256 import java.util.Scanner;
257 public class mobile {
258
259     public static void main(String[] args) {
260         // TODO Auto-generated method stub
261         try {
262             int mno,price;
263             String company,color;
264             Scanner sc = new Scanner(System.in);
265             Class.forName("com.mysql.jdbc.Driver");
266             Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/b56","root","root");
267             Statement stmt = con.createStatement();
268             String sql = "create table Mobile(Model_No INT,Company varchar(20),Price INT,Color varchar(20))";
269             stmt.executeUpdate(sql);
270             System.out.println("Table Created");
271             System.out.println("Enter Model no");
272             mno=sc.nextInt();
273             System.out.println("Enter Company");
274             company=sc.nextLine();
275             System.out.println("Enter Price");
276             price=sc.nextInt();
277             System.out.println("Enter Color");
278             color=sc.nextLine();
279             stmt.executeUpdate("insert into Mobile values("+mno+", '"+company+"', "+price+", '"+color+"')");
280             System.out.println("Record added successfully");
281             con.close();
282         }catch(Exception e)
283         {
284             System.out.println(e);
285         }
286     }
287 }
288 =====
289 10) Write a JDBC Program in java to display the names of Employees starting with 'S' character.
290
291 import java.sql.Connection;
292 import java.sql.DriverManager;
293 import java.sql.ResultSet;
294 import java.sql.Statement;
295 public class empstarts {
296
297     public static void main(String[] args) {
298
299         try {
300             Class.forName("com.mysql.jdbc.Driver");
301             Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/b56","root","root");
302             Statement stmt=con.createStatement();
303             ResultSet rs=stmt.executeQuery("select * from employee where ename like 'S%'");
304             System.out.println("eno\t"+"ename\t"+"department\t"+"sal");
305             while(rs.next())
```

```
306 {
307     System.out.println("\n"+rs.getInt(1)+"\t"+rs.getString(2)+"\t"+rs.getString(3)+"\t"+rs.getInt(4));
308 }
309 }
310 catch(Exception e)
311 {
312     System.out.println(e);
313 }
314 }
315 }
316 =====
317 11) Write a JDBC program to delete the details of given employee (ENoENAME Salary).
318 package javaprograms;
319
320 import java.sql.Connection;
321 import java.sql.DriverManager;
322 import java.sql.Statement;
323 import java.util.Scanner;
324
325 public class delemployee {
326
327     public static void main(String[] args) {
328         Scanner sc= new Scanner(System.in);
329         try {
330             Class.forName("com.mysql.jdbc.Driver");
331             Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/b56","root","root");
332             Statement stmt = con.createStatement();
333             System.out.println("enter id:- ");
334             int i = sc.nextInt();
335             String str = " delete from emp where id="+i+"";
336             stmt.executeUpdate(str);
337             System.out.println("deleted successfully..");
338         }
339         catch(Exception e) {
340             System.out.println(e);
341         }
342     }
343 }
344 =====THANK_YOU=====
```