```java
 1 package Business;
 2
 3 /********
 4 Shawn Embry
 5 Dentist Project
 6 CIST2373
 7 ********/
 8
 9 import java.sql.*;
10
11
/************************************************************
*****
12  *  Procedures class communicates with Procedures table
of database.
13
************************************************************
***/
14 public class Procedures
15 {
16     /********************Properties*****************/
17     private String procCode, procName, procDesc;
18     private double cost;
19     /********************Constructors****************/
20     public Procedures()
21     {
22         procCode = "";
23         procName = "";
24         procDesc = "";
25         cost = 0.0;
26     }
27     public Procedures(String procCode,String procName,
String procDesc,double cost)
28     {
29         this.procCode = procCode;
30         this.procName = procName;
31         this.procDesc = procDesc;
```

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32              this.cost = cost;
33          }
34
35          /********************Behaviors****************/
36      public void setProcCode(String procC)
{procCode=procC;}
37      public String getProcCode() {return procCode; }
38
39      public void setProcName(String procN)
{procName=procN;}
40      public String getProcName() {return procName; }
41
42      public void setProcDesc(String procD)
{procDesc=procD;}
43      public String getProcDesc() {return procDesc; }
44
45      public void setCost(double c){cost=c;}
46      public double getCost() {return cost; }
47
48      public void display(){
49          System.out.println("Procedure Code = " +
getProcCode());
50          System.out.println("Procedure Name = " +
getProcName());
51          System.out.println("Procedure Description = " +
getProcDesc());
52          System.out.println("Cost = " + getCost());
53      }
54
55      /***********DB
Behaviors*****************************/
56
/**********************************************************
*****
57   *  Selects from Procedures table of database by
procedure code.
58
```

```
*************************************************************
***/
59 public void selectDB(String p)
60 {
61     try
62     {
63     //Load Driver - Step #1
64         Class.forName("net.ucanaccess.jdbc.
UcanaccessDriver");
65     //Get Connection from the Driver - Step #2
66         Connection c1;
67         c1=DriverManager.getConnection("jdbc:
ucanaccess://C:
/Users/kerds/OneDrive/School/Java3/Dentist/DentistOfficeMDB
.mdb");
68
69     //Create a Statement - Step #3
70         Statement stmt = c1.createStatement();
71         ResultSet rs = stmt.executeQuery("Select * from
Procedures where procCode = '" + p + "'");
72     //Process ResultSet
73     rs.next();
74     procCode = rs.getString(1);
75     procName = rs.getString(2);
76     procDesc = rs.getString(3);
77     cost = rs.getDouble(4);
78     c1.close();
79     }
80         catch(Exception se)
81         {
82         System.out.println(se);
83         }
84 } //end selectDB()
85
86
/*************************************************************
*****
```

```java
 87   *    Inserts new entry into Procedure table
 88
*******************************************************************
***/
 89 public void insertDB(String procC, String procN, String
procD, double c){
 90
 91         setProcCode(procC);
 92         setProcName(procN);
 93         setProcDesc(procD);
 94         setCost(c);
 95         this.procCode = procC;
 96         this.procName = procN;
 97         this.procDesc = procD;
 98         this.cost = c;
 99
100         try{
101             Class.forName("net.ucanaccess.jdbc.
UcanaccessDriver");
102             Connection con = DriverManager.
getConnection("jdbc:ucanaccess://C:
/Users/kerds/OneDrive/School/Java3/Dentist/DentistOfficeMDB
.mdb");
103
104             Statement stmt = con.createStatement();
105             String sql = "Insert into Procedures values
('"+getProcCode()+"',"+
106
"'"+getProcName()+"',"+
107
"'"+getProcDesc()+"',"+
108
"'"+getCost()+"')";
109
110             System.out.println(sql);
111             int n1 = stmt.executeUpdate(sql);
112             if (n1==1)
```

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113                    System.out.println("INSERT
Successful!!!");
114            else
115                    System.out.println("INSERT
FAILED**********");
116            con.close();
117        }
118        catch(Exception e1){
119            System.out.println(e1);
120        }
121
122    }//end insertDB()
123
124
/*************************************************************
*****
125  *   Updates existing Procedure entry
126
*************************************************************
***/
127 public void updateDB(){
128
129
130        try{
131            Class.forName("net.ucanaccess.jdbc.
UcanaccessDriver");
132            Connection con = DriverManager.
getConnection("jdbc:ucanaccess://C:
/Users/kerds/OneDrive/School/Java3/ChattBankMDB.mdb");
133
134            Statement stmt = con.createStatement();
135            String sql = "update Procedures set
procCode = '"+getProcCode() + "',"+
136                                " procName
= '"+getProcName() +"',"+
137                                " cost
='"+getCost() +"'"+
```

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138                                      " where
procCode='"+getProcCode()+"'";
139
140
141
142                System.out.println(sql);
143                int n = stmt.executeUpdate(sql);
144                if (n==1)
145                    System.out.println("UPDATE
Successful!!!");
146                else
147                    System.out.println("UPDATE
FAILED**********");
148                con.close();
149            }
150            catch(Exception e1){
151                System.out.println(e1);
152            }
153
154        }//end updateDB()
155
156
/***************************************************************
*****
157    *   Deletes existing Procedure entry
158
***************************************************************
***/
159    public void deleteDB(){
160        try{
161            Class.forName("net.ucanaccess.jdbc.
UcanaccessDriver");
162            Connection con = DriverManager.
getConnection("jdbc:ucanaccess://C:
/Users/kerds/OneDrive/School/Java3/Dentist/DentistOfficeMDB
.mdb");
163
```

```
164                Statement stmt = con.createStatement();
165                String sql = "Delete from Procedures where
procCode='"+getProcCode()+"'";
166                System.out.println(sql);
167                int n = stmt.executeUpdate(sql);
168                if (n==1)
169                    System.out.println("DELETE
Successful!!!");
170                else
171                    System.out.println("DELETE
FAILED**********");
172                con.close();
173            }
174
175            catch(Exception e1){
176                System.out.println(e1);
177            }
178
179        }//end deleteDB()
180
181    /*****************END DB
CODE****************************/
182
183        public static void main(String args[])
184            {
185        /************Select and Display
test****************/
186        //Procedures p1 = new Procedures();    //creates
empty object
187        //p1.selectDB("P114");
188        //p1.display();
189
190        /***********Insert test****************/
191        //Procedures p2;
192        //p2 = new Procedures();
193        //p2.insertDB("P791", "Extraction",  "Tooth
Removal", 100.00);
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194        //p2.display();
195
196        /************Update test*****************/
197        //Procedures p3 = new Procedures();
198        //p3.selectDB("P791");
199        //p3.setCost(140.00);
200        //p3.setProcDesc("Gum Numbing and Tooth
Removal");
201
202        /************Delete test****************/
203        //Procedures p4 = new Procedures();
204        //p4.selectDB("P791");
205        //p4.deleteDB();
206        }
207 }//End of Procedures class
208
```