```
 1 import java.sql.Connection;
18
19 public class Part1 extends JFrame {
20     private static final String URL = "jdbc:derby:C:\\Users\\Gamen\\MyDB";
21     private static final String USERNAME = "deitel";
22     private static final String PASSWORD = "deitel";
23
24     private Connection connection;
25     private PreparedStatement allAuthors;
26     private PreparedStatement authorBooks;
27     private PreparedStatement bookAuthors;
28
29     public Part1()
30     {
31         try
32         {
33             connection = DriverManager.getConnection(URL,USERNAME,PASSWORD);
34             allAuthors = connection.prepareStatement("SELECT * FROM Authors");
35             authorBooks = connection.prepareStatement("SELECT Authors.AuthorID,
   Authors.LastName, Authors.FirstName, Titles.Title, Titles.Copyright, Titles.ISBN FROM Authors
   INNER JOIN AuthorISBN on Authors.AuthorID = AuthorISBN.AuthorID INNER JOIN Titles on
   AuthorISBN.ISBN = Titles.ISBN WHERE Authors.AuthorID = 1 ORDER BY Authors.LastName ASC,
   Authors.FirstName ASC");
36             bookAuthors = connection.prepareStatement("SELECT Authors.AuthorID,
   Authors.LastName, Authors.FirstName, Titles.Title, Titles.Copyright, Titles.ISBN FROM Authors
   INNER JOIN AuthorISBN on Authors.AuthorID = AuthorISBN.AuthorID INNER JOIN Titles on
   AuthorISBN.ISBN = Titles.ISBN WHERE Titles.ISBN = '013299044X' ORDER BY Authors.LastName ASC,
   Authors.FirstName ASC");
37         }
38         catch (SQLException sqlException)
39         {
40             sqlException.printStackTrace();
41             System.exit(1);
42         }
43     }
44
45     public List<Author> getAllAuthors()
46     {
47         List<Author> results = null;
48         ResultSet resultSet = null;
49         try
50         {
51             resultSet = allAuthors.executeQuery();
52             results = new ArrayList<Author>();
53
54             while (resultSet.next())
55             {
56                 results.add(new
   Author(resultSet.getInt("AuthorID"),resultSet.getString("FirstName"),resultSet.getString("Last
   Name")));
57             }
58         }
59         catch(SQLException sqlException)
60         {
61             sqlException.printStackTrace();
62         }
63         finally
```

```
64          {
65              try
66              {
67                  resultSet.close();
68              }
69              catch(SQLException sqlException)
70              {
71                  sqlException.printStackTrace();
72                  close();
73              }
74          }
75
76          return results;
77      }
78
79      public List<AuthorBooks> getAuthorBooks()
80      {
81          List<AuthorBooks> results = null;
82          ResultSet resultSet = null;
83          try
84          {
85              resultSet = authorBooks.executeQuery();
86              results = new ArrayList<AuthorBooks>();
87
88              while (resultSet.next())
89              {
90                  results.add(new
    AuthorBooks(resultSet.getInt("AuthorID"),resultSet.getString("FirstName"),resultSet.getString(
    "LastName"),resultSet.getString("Title"),resultSet.getString("Copyright"),resultSet.getString(
    "ISBN")));
91              }
92          }
93          catch(SQLException sqlException)
94          {
95              sqlException.printStackTrace();
96          }
97          finally
98          {
99              try
100             {
101                 resultSet.close();
102             }
103             catch(SQLException sqlException)
104             {
105                 sqlException.printStackTrace();
106                 close();
107             }
108         }
109
110         return results;
111     }
112
113     public List<BookAuthors> getBookAuthors()
114     {
115         List<BookAuthors> results = null;
116         ResultSet resultSet = null;
117         try
```

```
118         {
119             resultSet = bookAuthors.executeQuery();
120             results = new ArrayList<BookAuthors>();
121 
122             while (resultSet.next())
123             {
124                 results.add(new
    BookAuthors(resultSet.getInt("AuthorID"),resultSet.getString("FirstName"),resultSet.getString(
    "LastName"),resultSet.getString("Title"),resultSet.getString("Copyright"),resultSet.getString(
    "ISBN")));
125             }
126         }
127         catch(SQLException sqlException)
128         {
129             sqlException.printStackTrace();
130         }
131         finally
132         {
133             try
134             {
135                 resultSet.close();
136             }
137             catch(SQLException sqlException)
138             {
139                 sqlException.printStackTrace();
140                 close();
141             }
142         }
143 
144         return results;
145     }
146 
147     public void close()
148     {
149         try
150         {
151             connection.close();
152         }
153         catch(SQLException sqlException)
154         {
155             sqlException.printStackTrace();
156         }
157     }
158 }
159 
```