```csharp
 1  using System;
 2  using System.Collections.Generic;
 3  using System.Linq;
 4  using System.Text;
 5  using System.Threading.Tasks;
 6  using System.Data;
 7  using SportsProDALClassLibrary;      //Reference to the Data Access Layer
 8
 9  namespace SportsProBLLClassLibrary
10  {
11      public class IncidentBLL
12      {
13
14          public List<Incident> GetAllIncidents()
15          {
16              List<Incident> lstIncidents = new List<Incident>();
17              DataTable dtAllIncidents = new DataTable();
18              IncidentDAL incidentDAL = new IncidentDAL();
19              dtAllIncidents = incidentDAL.RetrieveAllIncidents();
20
21              foreach(DataRow dr in dtAllIncidents.Rows)
22              {
23                  Incident incidentA = new Incident();
24                  incidentA.IncidentID = (int)dr["IncidentID"];
25                  incidentA.CustomerID = (int)dr["CustomerID"];
26                  incidentA.ProductCode = dr["ProductCode"].ToString();
27
28                  //Need to account for if the TechID value returns a null        ⤶
                        value.
29                  if (dr["TechID"] == DBNull.Value)
30                  {
31                      incidentA.TechID = null;
32                  }
33                  else
34                  {
35                      incidentA.TechID = (int?)dr["TechID"];
36                  }
37
38                  incidentA.DateOpened = (DateTime)dr["DateOpened"];
39
40                  if (dr["DateClosed"] == DBNull.Value)
41                  {
42                      incidentA.DateClosed = null;
43                  }
44                  else
45                  {
46                      incidentA.DateClosed = (DateTime?)dr["DateClosed"];
47                  }
48
```

```
49                        incidentA.Title = dr["Title"].ToString();
50                        incidentA.Description = dr["Description"].ToString();
51                        lstIncidents.Add(incidentA);
52                    }
53                return lstIncidents;
54            }
55
56        public List<Incident> GetIncidentsByTechnician(int techID)
57        {
58            List<Incident> lstIncidentsByTech = new List<Incident>();
59            DataTable dtIncidentsByTech = new DataTable();
60            IncidentDAL incidentDAL = new IncidentDAL();
61            dtIncidentsByTech = incidentDAL.RetrieveIncidentsByTechnician    ⇄
                  (techID);
62
63            foreach (DataRow dr in dtIncidentsByTech.Rows)
64            {
65                Incident incidentA = new Incident();
66                incidentA.IncidentID = (int)dr["IncidentID"];
67                incidentA.CustomerID = (int)dr["CustomerID"];
68                incidentA.ProductCode = dr["ProductCode"].ToString();
69
70                //Need to account for if the TechID value returns a null    ⇄
                    value.
71                if (dr["TechID"] == DBNull.Value)
72                {
73                    incidentA.TechID = null;
74                }
75                else
76                {
77                    incidentA.TechID = (int?)dr["TechID"];
78                }
79
80                incidentA.DateOpened = (DateTime)dr["DateOpened"];
81
82                if (dr["DateClosed"] == DBNull.Value)
83                {
84                    incidentA.DateClosed = null;
85                }
86                else
87                {
88                    incidentA.DateClosed = (DateTime?)dr["DateClosed"];
89                }
90
91                incidentA.Title = dr["Title"].ToString();
92                incidentA.Description = dr["Description"].ToString();
93                lstIncidentsByTech.Add(incidentA);
94            }
95            return lstIncidentsByTech;
```

```
 96            }
 97
 98        public List<Incident> GetOpenIncidentsByTechnican(int techID)
 99        {
100            List<Incident> lstOpenIncidentsByTech = new List<Incident>();
101            DataTable dtOpenIncidentsByTech = new DataTable();
102            IncidentDAL incidentDAL = new IncidentDAL();
103            dtOpenIncidentsByTech =
                  incidentDAL.RetrieveOpenIncidentsByTechnician(techID);
104
105            foreach (DataRow dr in dtOpenIncidentsByTech.Rows)
106            {
107                Incident incidentA = new Incident();
108                incidentA.IncidentID = (int)dr["IncidentID"];
109                incidentA.CustomerID = (int)dr["CustomerID"];
110                incidentA.ProductCode = dr["ProductCode"].ToString();
111
112                //Need to account for if the TechID value returns a null
                     value.
113                if (dr["TechID"] == DBNull.Value)
114                {
115                    incidentA.TechID = null;
116                }
117                else
118                {
119                    incidentA.TechID = (int?)dr["TechID"];
120                }
121
122                incidentA.DateOpened = (DateTime)dr["DateOpened"];
123
124                if (dr["DateClosed"] == DBNull.Value)
125                {
126                    incidentA.DateClosed = null;
127                }
128                else
129                {
130                    incidentA.DateClosed = (DateTime?)dr["DateClosed"];
131                }
132
133                incidentA.Title = dr["Title"].ToString();
134                incidentA.Description = dr["Description"].ToString();
135                lstOpenIncidentsByTech.Add(incidentA);
136            }
137            return lstOpenIncidentsByTech;
138        }
139    }
140 }
141
```