

```
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Text;
5 using System.Data;
6 using System.Data.SqlClient;
7
8 namespace RecapsulationCodes.DBCon
9 {
10     class DBConnect
11     {
12         string str = "";
13         string query = "";
14         public SqlConnection con = null;
15         public SqlCommand cmd = null;
16         public SqlDataReader cdr = null;
17
18         public void getCon()
19         {
20             try
21             {
22                 str = "data source=CHANDRA-PC\\SQLEXPRESS; database=Project001; integrated security=SSPI";
23                 con = new SqlConnection(str);
24
25                 if (con.State != ConnectionState.Open)
26                 {
27                     con.Open();
28                     //Console.WriteLine("Connection Successfull...!");
29                 }
30             }
31             catch (Exception e)
32             {
33                 Console.WriteLine("OOPs, something went wrong." + e);
34             }
35         }
36
37         public void crtTable()
38         {
39             int numrows;
40             getCon();
41             try
42             {
43                 query = "CREATE TABLE A2(" +
44                     "PersonID int," +
45                     "LastName varchar(255)," +
46                     "FirstName varchar(255)," +
47                     "Address varchar(255)," +
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48         "City varchar(255)" +
49         " )";
50
51         cmd = new SqlCommand(query, con);
52         numRows = cmd.ExecuteNonQuery();
53
54         if (numRows != 0)
55         {
56             Console.WriteLine("Table created successfully...!");
57         }
58         else
59         {
60             Console.WriteLine("Table creation error...!");
61         }
62     }
63     catch (Exception e)
64     {
65         Console.WriteLine("OOPs, something went wrong." + e);
66     }
67 }
68
69 public void insrtDataTable()
70 {
71     int numRows;
72     int pid;
73     string fnm, lnm, add, cty;
74
75     getCon();
76     try
77     {
78         Console.Write("Enter the PersonId: ");
79         pid = int.Parse(Console.ReadLine());
80
81         Console.Write("Enter the Firstname: ");
82         fnm = Console.ReadLine();
83
84         Console.Write("Enter the Lastname: ");
85         lnm = Console.ReadLine();
86
87         Console.Write("Enter the Address: ");
88         add = Console.ReadLine();
89
90         Console.Write("Enter the City: ");
91         cty = Console.ReadLine();
92
93         query = "INSERT INTO Persons"
94                 "(PersonId, LastName, FirstName, Address, City)"
```

+

+

```
95         "VALUES ("
96         pid + ", ' " + lnm + " ', ' " + fnm + " ', ' " + add + " ', ' " + cty + " ' " +
97         ") ";
98
99         cmd = new SqlCommand(query, con);
100         numrows = cmd.ExecuteNonQuery();
101
102         if (numrows != 0)
103         {
104             Console.WriteLine("Table data inserted successfully...!");
105         }
106         else
107         {
108             Console.WriteLine("Table data insertion error...!");
109         }
110     }
111     catch (Exception e)
112     {
113         Console.WriteLine("Oops, something went wrong." + e);
114     }
115 }
116
117 public void deleteDataTable()
118 {
119     int numrows;
120     int pid;
121
122     getCon();
123     try
124     {
125         Console.Write("Enter the PersonId: ");
126         pid = int.Parse(Console.ReadLine());
127
128         query = "Delete From Persons where PersonId = " + pid;
129
130         cmd = new SqlCommand(query, con);
131         numrows = cmd.ExecuteNonQuery();
132
133         if (numrows != 0)
134         {
135             Console.WriteLine("Table data deleted successfully...!");
136         }
137         else
138         {
139             Console.WriteLine("Table data deletion error...!");
140         }
141     }
```

```
142         catch (Exception e)
143         {
144             Console.WriteLine("OOPs, something went wrong." + e);
145         }
146     }
147
148     public void viewAllDataTable()
149     {
150         getCon();
151         try
152         {
153             query = "Select * from Persons";
154
155             cmd = new SqlCommand(query, con);
156             cdr = cmd.ExecuteReader();
157
158             if (cdr.HasRows)
159             {
160                 while (cdr.Read())
161                 {
162                     Console.WriteLine("-----");
163                     Console.WriteLine(cdr["PersonId"] + " | " + cdr["FirstName"] + " " + cdr["LastName"] + " | " + cdr[
164                         "Address"] + " | " + cdr["City"]);
165                 }
166             }
167             else
168             {
169                 Console.WriteLine("Table does not contain any data...!");
170             }
171         }
172         catch (Exception e)
173         {
174             Console.WriteLine("OOPs, something went wrong." + e);
175         }
176     }
177
178     public void viewDataTable()
179     {
180         int pid;
181         getCon();
182         try
183         {
184             Console.Write("Enter the PersonId: ");
185             pid = int.Parse(Console.ReadLine());
186
187             query = "Select * from Persons where PersonId = " + pid;
```

```
188         cmd = new SqlCommand(query, con);
189         cdr = cmd.ExecuteReader();
190
191         if (cdr.HasRows)
192         {
193             while (cdr.Read())
194             {
195                 Console.WriteLine("-----");
196                 Console.WriteLine(cdr["PersonId"] + " | " + cdr["FirstName"] + " " + cdr["LastName"] + " | " + cdr[
Address"] + " | " + cdr["City"]);
197             }
198         }
199         else
200         {
201             Console.WriteLine("Table does not contain any data...!");
202         }
203     }
204     catch (Exception e)
205     {
206         Console.WriteLine("OOPs, something went wrong." + e);
207     }
208 }
209
210 public void searchDataTable()
211 {
212     int pid;
213     getCon();
214
215     try
216     {
217         Console.Write("Enter the PersonId: ");
218         pid = int.Parse(Console.ReadLine());
219
220         query = "Select * From Persons where PersonId = " + pid;
221
222         cmd = new SqlCommand(query, con);
223         cdr = cmd.ExecuteReader();
224
225         if (cdr.HasRows)
226         {
227             while (cdr.Read())
228             {
229                 Console.WriteLine("-----");
230                 Console.WriteLine(cdr["PersonId"] + " | " + cdr["FirstName"] + " " + cdr["LastName"] + " | " + cdr[
Address"] + " | " + cdr["City"]);
231             }
232         }
```

```
233         else
234         {
235             Console.WriteLine("Table does not contain any data...!");
236         }
237     }
238     catch (Exception e)
239     {
240         Console.WriteLine("OOps, something went wrong." + e);
241     }
242 }
243
244 public void updateDataTable()
245 {
246     int pid, numrows;
247     string fnm, lnm;
248     getCon();
249
250     try
251     {
252         Console.Write("Enter the PersonId: ");
253         pid = int.Parse(Console.ReadLine());
254
255         Console.Write("Enter the First Name for updation: ");
256         fnm = Console.ReadLine();
257
258         Console.Write("Enter the Last Name for updation: ");
259         lnm = Console.ReadLine();
260
261         query = "Update Persons set FirstName = '" + fnm + "', LastName = '" + lnm + "' where PersonId = " + pid;
262
263         //Console.WriteLine(query);
264         cmd = new SqlCommand(query, con);
265         numrows = cmd.ExecuteNonQuery();
266
267         if (numrows != 0)
268         {
269             Console.WriteLine("Table data updated successfully...!");
270         }
271         else
272         {
273             Console.WriteLine("Table data updation error...!");
274         }
275     }
276     catch (Exception e)
277     {
278         Console.WriteLine("OOps, something went wrong." + e);
279     }
```

```
280     }  
281 }  
282 }
```