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ASSIGNMENT – 3

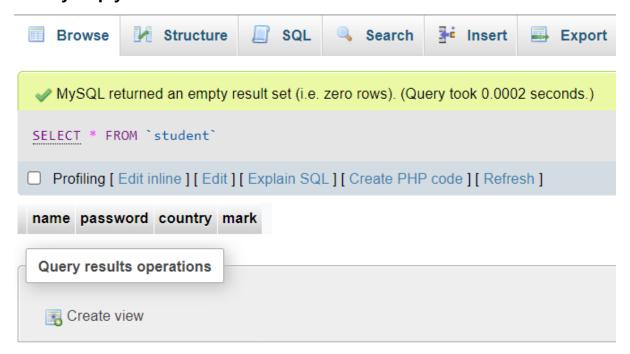
JDBC-WEEK 3

Q: Implementing JDBC operations in java.

Table: Student.



Initially empty table:



1. Insertion of data into table:

```
insert into student values('Bjron','1@123','Norway',40)
   i.
import java.sql.*;
public class jdbc {
       public static void main(String[] args) {
              // TODO Auto-generated method stub
              try
              {
                      Class.forName("com.mysql.cj.jdbc.Driver");
                      Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3307/Assignment","root
","");
                      Statement stmt = con.createStatement();
                      System.out.println("Inserting Records ...");
                      String sql = "insert into student
values('Bjron','1@123','Norway',40)";
                      stmt.executeUpdate(sql);
                      System.out.println("Records Successfully inserted :)
!!");
              catch(Exception e)
                      System.out.println("Hey there is a SQL error: " + e);
       }
}

☑ jdbc.java ×

 1 import java.sql.*;
 2 public class jdbc {
      public static void main(String[] args) {
 4⊝
 5
         // TODO Auto-generated method stub
 6
         try
 8
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3307/Assignment","root","");
            Statement stmt = con.createStatement();
10
            System.out.println("Inserting Records
            String sql = "insert into student values('Bjron', '1@123', 'Norway', 40)";
12
13
            stmt.executeUpdate(sql);
14
            System.out.println("Records Successfully inserted :) !!");
15
16
17
18
19
         catch(Exception e)
            System.out.println("Hey there is a SQL error: " + e);
         }
20
21
      }
```

```
© Console ×

<terminated > jdbc [Java Application] C:\Program Files\Java\jdk-17.0.1\bin\javaw.exe

Inserting Records ...

Records Successfully inserted :) !!
```

Table:

name	password	country	mark
Bjron	1@123	Norway	40

ii. insert into student values('John','password','Cadana',60)

```
    jdbc.java ×

  1 import java.sql.*;
  2 public class jdbc {
4⊝
         public static void main(String[] args) {
              // TODO Auto-generated method stub
              try
 8
                  Class.forName("com.mysql.cj.jdbc.Driver");
 9
                  Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3307/Assignment","root","");
                  Statement stmt = con.createStatement();
System.out.println("Inserting Records ...");
String sql = "insert into student values('John','password','Cadana',60)";
10
11
12
13
14
15
16
17
                  stmt.executeUpdate(sql);
                  System.out.println("Records Successfully inserted :) !!");
            catch(Exception e)
                  System.out.println("Hey there is a SQL error: " + e);
19
20
21
         }
```

```
Console ×
<terminated > jdbc [Java Application] C:\Program Files\Java\]
Inserting Records ...
Records Successfully inserted :) !!
```

Table:

name	password	country	mark
Bjron	1@123	Norway	40
John	password	Cadana	60

```
iii. insert into student
values('Sarath','1234567890q','India',80)
```

```
☑ jdbc.java ×

 1 import java.sql.*;
  2 public class jdbc {
         public static void main(String[] args) {
  5
             // TODO Auto-generated method stub
  6
              try
  8
                   Class.forName("com.mysql.cj.jdbc.Driver");
                   Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3307/Assignment","root","");
  9
                  Statement stmt = con.createStatement();
System.out.println("Inserting Records ...");
String sql = "insert into student values[]'Sarath','1234567890q','India',80)";
 10
11
12
13
14
15
16
17
18
19
20
                   stmt.executeUpdate(sql);
                   System.out.println("Records Successfully inserted :) !!");
              catch(Exception e)
                   System.out.println("Hey there is a SQL error: " + e);
21
         }
23 }
```

Table:

name	password	country	mark
Bjron	1@123	Norway	40
John	password	Cadana	60
Sarath	1234567890q	India	80

2. Updating records in table:

23 }

```
update student set mark = 50 where name = 'Bjron'
Code:
import java.sql.*;
public class jdbc {
       public static void main(String[] args) {
               // TODO Auto-generated method stub
               try
               {
                      Class.forName("com.mysql.cj.jdbc.Driver");
                      Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3307/Assignment","root
","");
                      Statement stmt = con.createStatement();
                      System.out.println("Updating Records ...");
                      String sql = "update student set mark = 50 where name =
'Bjron'";
                      stmt.executeUpdate(sql);
                      System.out.println("Successfully updated the table :)
!!");
               catch(Exception e)
                      System.out.println("Hey there is a SQL error: " + e);
       }

    jdbc.java ×

 1 import java.sql.*;
2 public class jdbc {
       public static void main(String[] args) {
 4⊝
          // TODO Auto-generated method stub
 6
          try
 8
             Class.forName("com.mysql.cj.jdbc.Driver");
             Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3307/Assignment", "root", "");
             Statement stmt = con.createStatement();
System.out.println("Updating Records ...");
 10
 11
             String sql = "update student set mark = 50 where name = 'Bjron'";
 12
 13
             stmt.executeUpdate(sql);
             System.out.println("Successfully updated the table :) !!");
 15
          catch(Exception e)
17
18
             System.out.println("Hey there is a SQL error: " + e);
19
20
21
      }
 22
```

```
© Console ×

<terminated > jdbc [Java Application] C:\Program Files\Java\jdk-17.0.1\bin\javaw.exe

Updating Records ...

Successfully updated the table :) !!
```

Table:

name	password	country	mark
Bjron	1@123	Norway	50
John	password	Cadana	60
Sarath	1234567890q	India	80

3. Deleting the records:

delete from student where country='Norway'

```
import java.sql.*;
public class jdbc {
      public static void main(String[] args) {
            // TODO Auto-generated method stub
            try
            {
                  Class.forName("com.mysql.cj.jdbc.Driver");
                  Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3307/Assignment","root
","");
                  Statement stmt = con.createStatement();
                  String sql = "delete from student where
country='Norway'";
                  stmt.executeUpdate(sql);
                  System.out.println("Record deleted from the table :)
!!");
            }
            catch(Exception e)
                  System.out.println("Hey there is a SQL error: " + e);
            }
      }
}
```

```
☑ jdbc.java ×
 1 import java.sql.*;
 2 public class jdbc {
        public static void main(String[] args) {
 5
            // TODO Auto-generated method stub
 6
7
8
9
                 Class.forName("com.mysql.cj.jdbc.Driver");
                 Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3307/Assignment","root","");
10
                 Statement stmt = con.createStatement();
String sql = "delete from student where country='Norway'";
11
12
                 stmt.executeUpdate(sql);
13
                 System.out.println("Record deleted from the table :) !!");
14
15
            catch(Exception e)
16
                 System.out.println("Hey there is a SQL error: " + e);
17
18
19
        }
20
21
22 }
```

```
Console ×

<terminated> jdbc [Java Application] C:\Program Files\Java\jdle Record deleted from the table :) !!
```

Table:

name	password	country	mark
John	password	Cadana	60
Sarath	1234567890q	India	80