## Experiment 18

Contract of		
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	Date:	
	1. UDBC applications enjoy the platform	
	independence of Java, which lends itself	a contract of
	to Internet applications. ODBC applica-	
	tions, ODBE appli must, at a minimum,	
	be recompiled to run on a different OS/	
	hardware combination	
	ii) JDBC does not require software on	100
	each client system, which itself well for Internet applications.	
	for internet applications.	Da Line
	mi) FDBC is simpler 4 easier to larn than	
	iv) TDPC is not primarily taracted for	
	iv) JDBC is not primarily targeted for desktop application development,	
	which makes for laster implementa-	
	which makes for faster implementa- tion outside the Windows environment	
	f is frequently used in enterprise class applications.	14-54
	class applications.	
	2. Routemas i) class loader of an applications loads all classes.	
	loads all classes.	
	ii) class for Name returns the reference	
	ii) class for Name returns the reference of class Objects for specified class	
	hame.	
	3. i) DSN:-	
	1. Connect to DSN	
	2. Write SQL statement query	
NEGATION.	3. Fetch data from database	
	4. Close the connection.	
	ii) DSN Less:-	
	1. Create instance of the connection	The state of
	object.	PERMI
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	Page No. You'v
	2 Deline ennection string spectly
	2 Define connection string, specify database driver
	3 Write the SOL statement query.
	4 Continue with step 3 ft while there
	5 Close the connection frecordiset
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```
import java.sql.*;
class Exp18a {
  public String database = "C:\\Users\\deong\\College\\Java\\Manual-
Programs\\Experiment18\\SampleDatabase.accdb";
  private Connection conn;
  // Create Connection
  public void createConnection() {
    try {
      conn = DriverManager.getConnection("jdbc:ucanaccess://" + database);
    } catch (SQLException e) {
      System.out.println("Connection Failed");
      System.exit(1);
    }
  }
  public void closeConnection() {
    try {
      conn.close();
    } catch (SQLException e) {
      System.out.println("Close Connection Failed ?");
    }
  }
  public void updateQuery(String query) {
      Statement statement = conn.createStatement();
      statement.executeUpdate(query);
    } catch (SQLException e) {
      System.out.println("Error in updateQuery()");
    }
  }
  public static void main(String[] args) {
    Exp18a dbconn = new Exp18a();
    try {
      Class.forName("net.ucanaccess.jdbc.UcanaccessDriver");
    } catch (Exception e) {
      System.out.println("Error in Loading Driver");
    }
    dbconn.createConnection();
    // dbconn.updateQuery("DROP TABLE Student;");
    dbconn.updateQuery("CREATE TABLE Student (rollno COUNTER PRIMARY KEY, name
TEXT(50));");
    dbconn.updateQuery("INSERT INTO Student (name) VALUES( 'Deon')");
    dbconn.updateQuery("INSERT INTO Student (name) VALUES( 'Agares')");
  }
}
```

```
import java.sql.*;
public class Exp18b {
  public String database = "C:\\Users\\deong\\College\\Java\\Manual-
Programs\\Experiment18\\SampleDatabase.accdb";
  private Connection conn;
  // Create Connection
  public void createConnection() {
    try {
      conn = DriverManager.getConnection("jdbc:ucanaccess://" + database);
    } catch (SQLException e) {
      System.out.println("Connection Failed");
      System.exit(1);
    }
  }
  public void closeConnection() {
    try {
      conn.close();
    } catch (SQLException e) {
      System.out.println("Close Connection Failed ?");
    }
  }
  public void query() throws SQLException {
    Statement st = conn.createStatement();
    String str = "select * from student";
    ResultSet rs = st.executeQuery(str);
    String text = " ";
    System.out.println("Roll Number \t Name");
    while (rs.next()) {
      text = text + rs.getInt(1) + "\t" + rs.getString(2) + "\n";
    System.out.print(text);
  }
  public static void main(String[] args) throws SQLException {
    Exp18b dbconn = new Exp18b();
    try {
      Class.forName("net.ucanaccess.jdbc.UcanaccessDriver");
    } catch (Exception e) {
      System.out.println("Error in Loading Driver");
    dbconn.createConnection();
    System.out.println("Connection to the database created");
    dbconn.query();
  }
}
```

## Roll Number Name 1 Deon

```
import java.sql.*;
class Exp18c {
  public String database = "C:\\Users\\deong\\College\\Java\\Manual-
Programs\\Experiment18\\SampleDatabase.accdb";
  private Connection conn;
  // Create Connection
  public void createConnection() {
    try {
      conn = DriverManager.getConnection("jdbc:ucanaccess://" + database);
    } catch (SQLException e) {
      System.out.println("Connection Failed");
      System.exit(1);
    }
  }
  public void closeConnection() {
    try {
      conn.close();
    } catch (SQLException e) {
      System.out.println("Close Connection Failed ?");
    }
  }
  public void updateQuery(String query) {
      Statement statement = conn.createStatement();
      statement.executeUpdate(query);
    } catch (SQLException e) {
      System.out.println("Error in updateQuery()");
    }
  }
  public static void main(String[] args) {
    Exp18c dbconn = new Exp18c();
      Class.forName("net.ucanaccess.jdbc.UcanaccessDriver");
    } catch (Exception e) {
      System.out.println("Error in Loading Driver");
    dbconn.createConnection();
    dbconn.updateQuery("DROP TABLE Employee;");
    dbconn.updateQuery("CREATE TABLE Employee (emp_id INTEGER PRIMARY KEY, emp_name
VARCHAR(50));");
  }
```

```
}
```

} catch (SQLException e) {

}

```
Employee
 All Access ... ⊙
                                                            emp_name - Click to Add -
                                           emp_id
 Search...
                                    *
  Tables
   \blacksquare
        Employee
import java.sql.*;
class Exp18d {
  public String database = "C:\\Users\\deong\\College\\Java\\Manual-
Programs\\Experiment18\\SampleDatabase.accdb";
  private Connection conn;
  // Create Connection
  public void createConnection() {
    try {
      conn = DriverManager.getConnection("jdbc:ucanaccess://" + database);
    } catch (SQLException e) {
      System.out.println("Connection Failed");
      System.exit(1);
    }
  }
  public void closeConnection() {
    try {
      conn.close();
    } catch (SQLException e) {
      System.out.println("Close Connection Failed ?");
    }
  }
  public void printStudents(String where) {
      Statement statement = conn.createStatement();
      ResultSet resultSet = statement.executeQuery("SELECT * FROM Students WHERE " + where +
";");
      while (resultSet.next()) {
        String employee = "Student " + resultSet.getString("ID") + ":" + "\n\tName : "
             + resultSet.getString("name") + "\n\tPercentage: " + resultSet.getString("percentage");
        System.out.println(employee);
      }
```

System.out.println("Error in Printing Employees With WHERE Condition");

```
public static void main(String[] args) {
    Exp18d dbconn = new Exp18d();
    try {
        Class.forName("net.ucanaccess.jdbc.UcanaccessDriver");
    } catch (Exception e) {
        System.out.println("Error in Loading Driver");
    }
    dbconn.createConnection();
    dbconn.printStudents("percentage > 70");
}

Student 3:
    Name : ghi
```

```
Student 3:
Name : ghi
Percentage : 80
Student 4:
Name : jkl
Percentage : 90
```