

Practical no:- 18

Program code:-

1)

```
import java.sql.*;
```

```
class Exp18a {
```

```
    public String database =  
    "C:\\Users\\deong\\College\\Java\\Manual-Programs\\Experiment18\\SampleDatabas  
e.accdb";
```

```
    private Connection conn;
```

```
    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) {  
    try {  
        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("CREATE TABLE Student (rollno COUNTER  
PRIMARY KEY, name TEXT(50));");  
    dbconn.updateQuery("INSERT INTO Student (name) VALUES( 'Deon')");  
}  
}
```

```
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

Exercise:-

1)

```
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) {  
    try {  
        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();  
    try {  
        Class.forName("net.ucanaccess.jdbc.UcanaccessDriver");  
    } catch (Exception e) {  
        System.out.println("Error in Loading Driver");  
    }  
    dbconn.createConnection();  
}
```

```

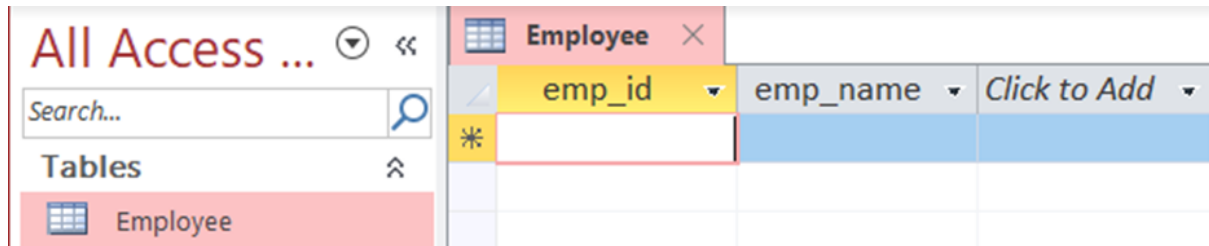
dbconn.updateQuery("DROP TABLE Employee;");

dbconn.updateQuery("CREATE TABLE Employee (emp_id INTEGER
PRIMARY KEY, emp_name VARCHAR(50));");

}

}

```



2)

```
import java.sql.*;
```

```
class Exp18d {
```

```

    public String database =
"C:\\Users\\deong\\College\\Java\\Manual-Programs\\Experiment18\\SampleDatabas
e.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) {
    try {
        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);
        }
    }
}

```



```

    } catch (SQLException e) {

        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
    Percentage : 80
Student 4:
    Name : jkl
    Percentage : 90

```