

Experiment No. 10

Aim: a) Create an application that will create database to store username and password.

b) Create an application to insert, update and delete a record from the database.

Program:

- **Activity.xml :-**

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context=".MainActivity">

    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/et1"
        android:gravity="center"
        android:hint="Enter ID"/>
    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/et2"
        android:gravity="center"
        android:hint="Enter Username"/>
    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/et3"
        android:gravity="center"
        android:inputType="textPassword"
        android:hint="Enter Password"/>
    <LinearLayout
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:orientation="horizontal">
        <Button
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:id="@+id/bt1"
            android:text="INSERT"
            android:onClick="InsertData"
            android:layout_marginLeft="30dp"/>
```

```

        <Button
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:id="@+id/bt2"
            android:text="DELETE"
            android:onClick="DeleteData"
            android:layout_marginLeft="30dp"/>
        <Button
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:id="@+id/bt3"
            android:text="UPDATE"
            android:onClick="UpdateData"
            android:layout_marginLeft="30dp"/>
    </LinearLayout>

</LinearLayout>

```

- **MainActivity.java :-**

```

package com.example.sqlite;

import androidx.appcompat.app.AppCompatActivity;

import android.content.ContentValues;
import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {
    EditText et1, et2, et3;
    Button bt1, bt2, bt3;
    String uid, uname, upass;
    SQLiteDatabase db;
    SQLiteOpenHelper helper;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        et1= findViewById(R.id.et1);
        et2= findViewById(R.id.et2);
        et3= findViewById(R.id.et3);
        bt1= findViewById(R.id.bt1);
        bt2= findViewById(R.id.bt2);
    }
}

```

```

        bt3= findViewById(R.id.bt3);
        helper= new DbHelper(this);
    }

    public void InsertData(View view) {
        uid= et1.getText().toString();
        uname= et2.getText().toString();
        upass= et3.getText().toString();

        db= helper.getWritableDatabase();
        ContentValues values= new ContentValues();
        values.put(DbHelper.COL_1, uid);
        values.put(DbHelper.COL_2, uname);
        values.put(DbHelper.COL_3, upass);

        double result= db.insert(DbHelper.TABLE_NAME, null,
values);
        if(result== -1)
        {
            Toast.makeText(this, "Insertion failed",
Toast.LENGTH_SHORT).show();
        }
        else {
            Toast.makeText(this, "Insertion successful",
Toast.LENGTH_SHORT).show();
        }
    }

    public void DeleteData(View view) {
        uid= et1.getText().toString();
        uname= et2.getText().toString();
        upass= et3.getText().toString();

        db= helper.getWritableDatabase();
        ContentValues values= new ContentValues();
        values.put(DbHelper.COL_1, uid);
        values.put(DbHelper.COL_2, uname);
        values.put(DbHelper.COL_3, upass);

        double result= db.delete(DbHelper.TABLE_NAME,
DbHelper.COL_1+"=?", new String[]{uid});
        if(result== -1)
        {
            Toast.makeText(this, "Deletion failed",
Toast.LENGTH_SHORT).show();
        }
        else {
            Toast.makeText(this, "Deletion successful",
Toast.LENGTH_SHORT).show();
        }
    }

```

```

    }

    public void UpdateData(View view) {
        uid= et1.getText().toString();
        uname= et2.getText().toString();
        upass= et3.getText().toString();

        db= helper.getWritableDatabase();
        ContentValues values= new ContentValues();
        values.put(DbHelper.COL_1, uid);
        values.put(DbHelper.COL_2, uname);
        values.put(DbHelper.COL_3, upass);

        double result= db.update(DbHelper.TABLE_NAME, values,
        DbHelper.COL_1+"=?", new String[]{uid});
        if(result== -1)
        {
            Toast.makeText(this, "Updation failed",
            Toast.LENGTH_SHORT).show();
        }
        else {
            Toast.makeText(this, "Updation successful",
            Toast.LENGTH_SHORT).show();
        }
    }
}

```

• DbHelper.java :-

```

package com.example.sqlite;

import android.content.Context;
import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;

import androidx.annotation.Nullable;

public class DbHelper extends SQLiteOpenHelper {
    public static final String DATABASE_NAME= "USER_DATABASE";
    public static final String TABLE_NAME= "USER_TABLE";

    public static final String COL_1= "ID";
    public static final String COL_2= "NAME";
    public static final String COL_3= "PASSWORD";

    public DbHelper(@Nullable Context context) {
        super(context, DATABASE_NAME, null, 1);
    }

    @Override

```

```
public void onCreate(SQLiteDatabase db) {
    db.execSQL("CREATE TABLE USER_TABLE(ID INTEGER PRIMARY
    KEY AUTOINCREMENT, NAME TEXT, PASSWORD TEXT)");
}

@Override
public void onUpgrade(SQLiteDatabase db, int i, int i1) {
    db.execSQL("DROP TABLE IF EXISTS"+TABLE_NAME);
    onCreate(db);
}
}
```

Output:

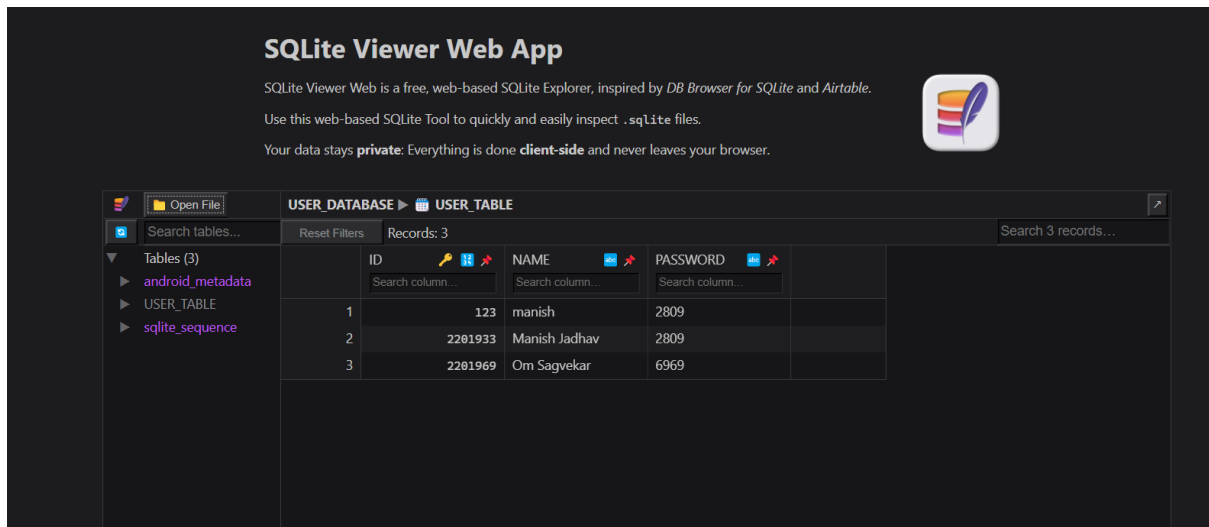
- **Inserting:**

The screenshot shows the SQLite app interface. At the top, the title bar is purple with the text "SQLite". Below it, the ID "2201933" is displayed. Underneath, the name "Manish Jadhav" is entered in a text field. Below the text field, there is a green bar with four dots and a cursor. At the bottom, there are three purple buttons labeled "INSERT", "DELETE", and "UPDATE".

The screenshot shows the SQLite app interface. At the top, the title bar is purple with the text "SQLite". Below it, the ID "2201969" is displayed. Underneath, the name "Om Sagvekar" is entered in a text field. Below the text field, there is a green bar with four dots and a cursor. At the bottom, there are three purple buttons labeled "INSERT", "DELETE", and "UPDATE".

Insertion successful

Insertion successful



• Updating:

10:11:41 • 19%

SQLite

123

Manish S Jadhav

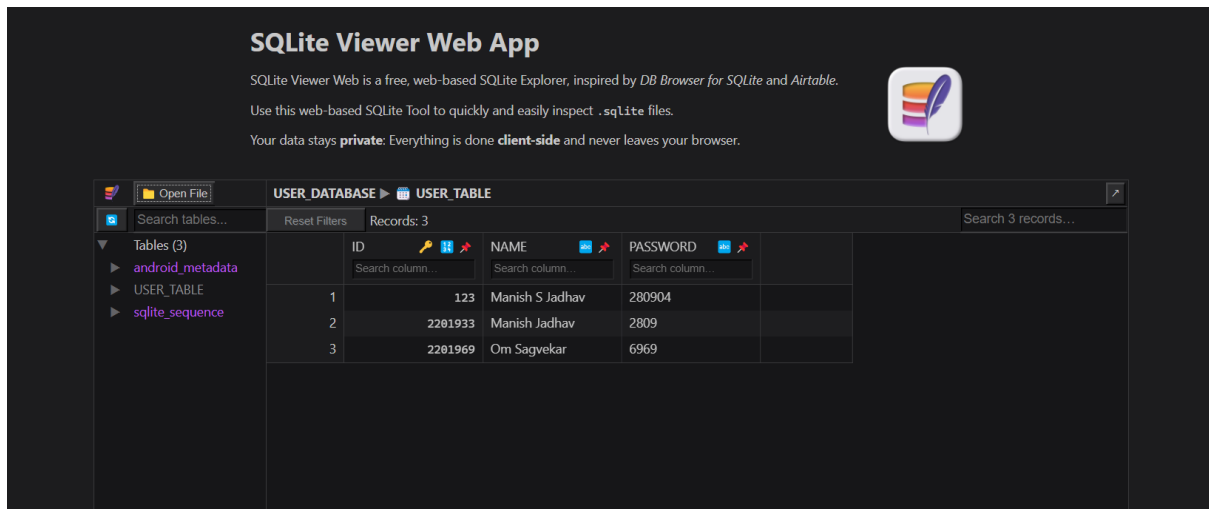
.....

INSERT

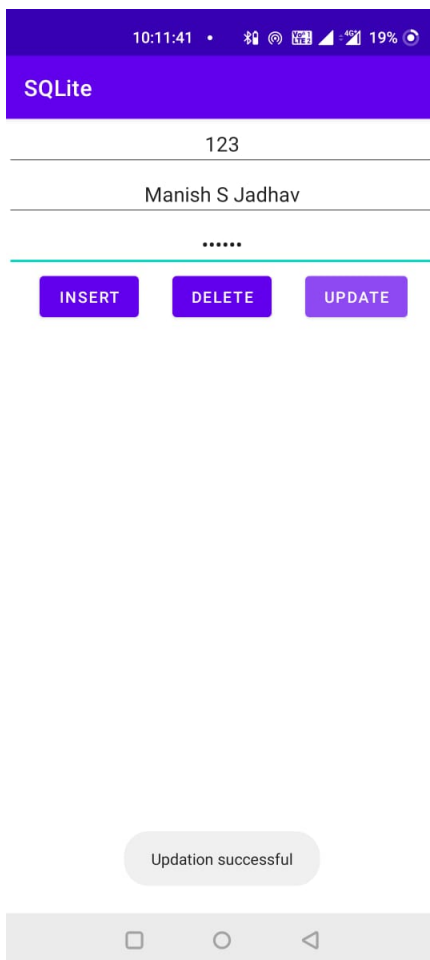
DELETE

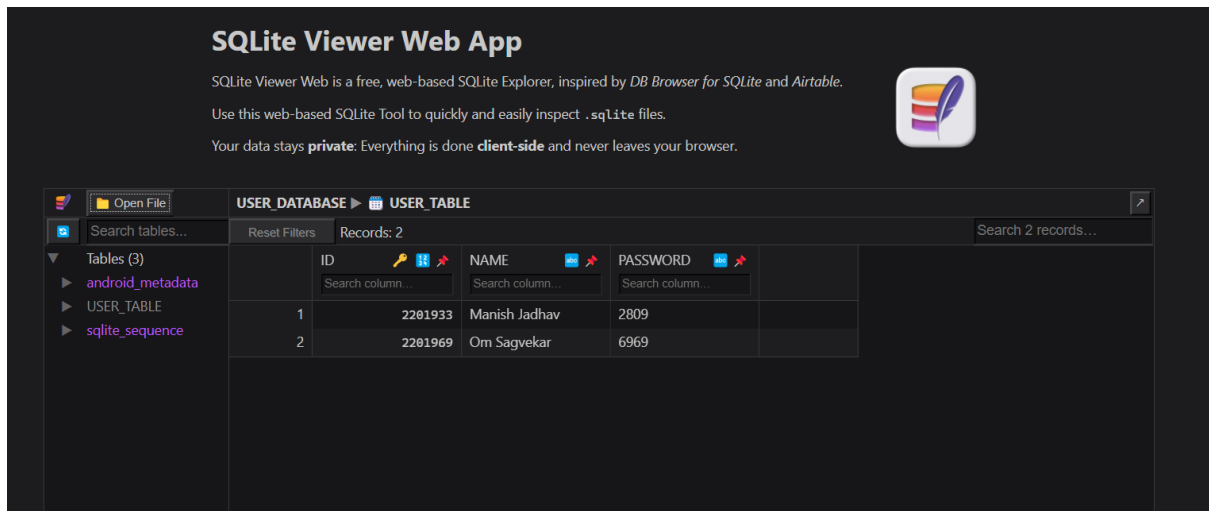
UPDATE

Update successful



• Deleting:





Conclusion:

Hence, by completing this experiment I came to know that how to Create a background application that will open activity on specific time.

Writeup & Oral (4)	Practical Performance (4)	Attendance (2)	Total (10)