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**Experiment No.: 19****Aim**

Perform UPDATE and DELETE on SQLite database

**CO5**

Develop mobile applications using SQLite.

**Procedure****Main\_activity.xml**

```
<?xml version="1.0" encoding="utf-8"?>

<androidx.constraintlayout.widget.ConstraintLayout
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"
    tools:context=".MainActivity">

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Enter the Details Below!"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.108" />

    <EditText
        android:id="@+id/editTextTextPersonName"
        android:layout_width="wrap_content"
```

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```
        android:layout_height="wrap_content"
        android:layout_marginStart="116dp"
        android:layout_marginTop="24dp"
        android:ems="10"
        android:inputType="textPersonName"
        android:hint="Enter Name Here"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/textView" />
<EditText
        android:id="@+id/editTextTextPersonName4"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="116dp"
        android:layout_marginTop="36dp"
        android:ems="10"
        android:inputType="textPersonName"
        android:hint="Enter contact Here"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/editTextTextPersonName" />
<EditText
        android:id="@+id/editTextTextPersonName5"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="116dp"
        android:layout_marginTop="40dp"
        android:ems="10"
        android:inputType="textPersonName"
        android:hint="Enter DOB"
        app:layout_constraintStart_toStartOf="parent"
```

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```
app:layout_constraintTop_toBottomOf="@+id/editTextTextPersonName4" />
<Button
    android:id="@+id/button5"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="4dp"
    android:layout_marginTop="48dp"
    android:hint="Create"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/editTextTextPersonName5" />
<Button
    android:id="@+id/button6"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="8dp"
    android:layout_marginTop="48dp"
    android:text="Update"
app:layout_constraintStart_toEndOf="@+id/button5"
    app:layout_constraintTop_toBottomOf="@+id/editTextTextPersonName5" />
<Button
    android:id="@+id/button7"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="8dp"
    android:layout_marginTop="48dp"
    android:text="Read"
    app:layout_constraintStart_toEndOf="@+id/button6"
    app:layout_constraintTop_toBottomOf="@+id/editTextTextPersonName5" />
<Button
```

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```
        android:id="@+id/button8"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="4dp"
        android:layout_marginTop="48dp"
        android:text="Delete"
        app:layout_constraintStart_toEndOf="@+id/button7"
        app:layout_constraintTop_toBottomOf="@+id/editTextTextPersonName5" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

### MainActivity.java

```
package com.example.curdoperation;

import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity;

import android.database.Cursor;
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 name,contact,dob;
    Button create1;
    DBHelper DB;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
```

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```
setContentView(R.layout.activity_main);

name = (EditText) findViewById(R.id.editTextTextPersonName);
contact =(EditText) findViewById(R.id.editTextTextPersonName4);
dob = (EditText) findViewById(R.id.editTextTextPersonName5);
create1 = (Button) findViewById(R.id.button5);
Button update = (Button)findViewById(R.id.button6);
Button delete = (Button)findViewById(R.id.button8);
Button read = (Button)findViewById(R.id.button7);
DB=new DBHelper(this);
create1.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        String nameTXT=name.getText().toString();
        String contactTXT=contact.getText().toString();
        String dobTXT=dob.getText().toString();
        Boolean checkinsertdata = DB.insertuserdatas(nameTXT,contactTXT,dobTXT);
        if(checkinsertdata == true)
        {
            Toast.makeText(MainActivity.this, "data inserted",
Toast.LENGTH_SHORT).show();
        }
        else
        {
            Toast.makeText(MainActivity.this, "failed to insert",
Toast.LENGTH_SHORT).show();
        }
    }
});
update.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        String nameTXT=name.getText().toString();
```

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```
String contactTXT=contact.getText().toString();
String dobTXT=dob.getText().toString();
Boolean checkupdatedata = DB.updateuserdatas(nameTXT,contactTXT,dobTXT);
if(checkupdatedata == true)
{
    Toast.makeText(MainActivity.this, "data updated",
Toast.LENGTH_SHORT).show();
}
else
{
    Toast.makeText(MainActivity.this, "failed to update",
Toast.LENGTH_SHORT).show();
}}});
```

```
delete.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        String nameTXT=name.getText().toString();

        Boolean checkdeletedata = DB.deleteuserdatas(nameTXT);
        if(checkdeletedata == true)
        {
            Toast.makeText(MainActivity.this, "row deleted",
Toast.LENGTH_SHORT).show();
        }
        else
        {
            Toast.makeText(MainActivity.this, "failed to delete row",
Toast.LENGTH_SHORT).show();
        }
    }
});
```

```
read.setOnClickListener(new View.OnClickListener() {
```

---

```
@Override

public void onClick(View v) {

    Cursor res = DB.getdata();

    if(res.getCount()==0)

    {

        Toast.makeText(MainActivity.this, "no datas found",
Toast.LENGTH_SHORT).show();

        return;

    }

    StringBuffer buffer = new StringBuffer();

    while(res.moveToNext())

    {

        buffer.append("name:"+res.getString(0)+"\n");

        buffer.append("contact:"+res.getString(1)+"\n");

        buffer.append("dob:"+res.getString(2)+"\n\n\n");

    }

    AlertDialog.Builder builder = new AlertDialog.Builder(MainActivity.this);

    builder.setCancelable(true);

    builder.setTitle("user DEtails");

    builder.setMessage(buffer.toString());

    builder.show();

}

}); }}
```

### DBHelper.java

```
package com.example.curdoperation;

import android.content.ContentValues;

import android.content.Context;

import android.database.Cursor;
```

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```
import android.database.sqlite.SQLiteDatabase;

import android.database.sqlite.SQLiteOpenHelper;


import androidx.annotation.Nullable;


public class DBHelper extends SQLiteOpenHelper {


    public DBHelper(Context context) {
        super(context, "userdata.db", null, 1);
    }


    @Override
    public void onCreate(SQLiteDatabase db) {
        db.execSQL("create table userdetails (name TEXT primary key, contact TEXT , dob TEXT)");
    }


    @Override
    public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion) {
        db.execSQL("drop table if exists userdetails");
    }


    public Boolean insertuserdatas (String name,String contact, String dob) {
        SQLiteDatabase DB = this.getWritableDatabase();
        ContentValues contentvalues = new ContentValues();
        contentvalues.put("name", name);
        contentvalues.put("contact", contact);
        contentvalues.put("dob", dob);
        long result = DB.insert("userdetails", null, contentvalues);
        if (result==-1) {
            return false;
        }
    }
}
```

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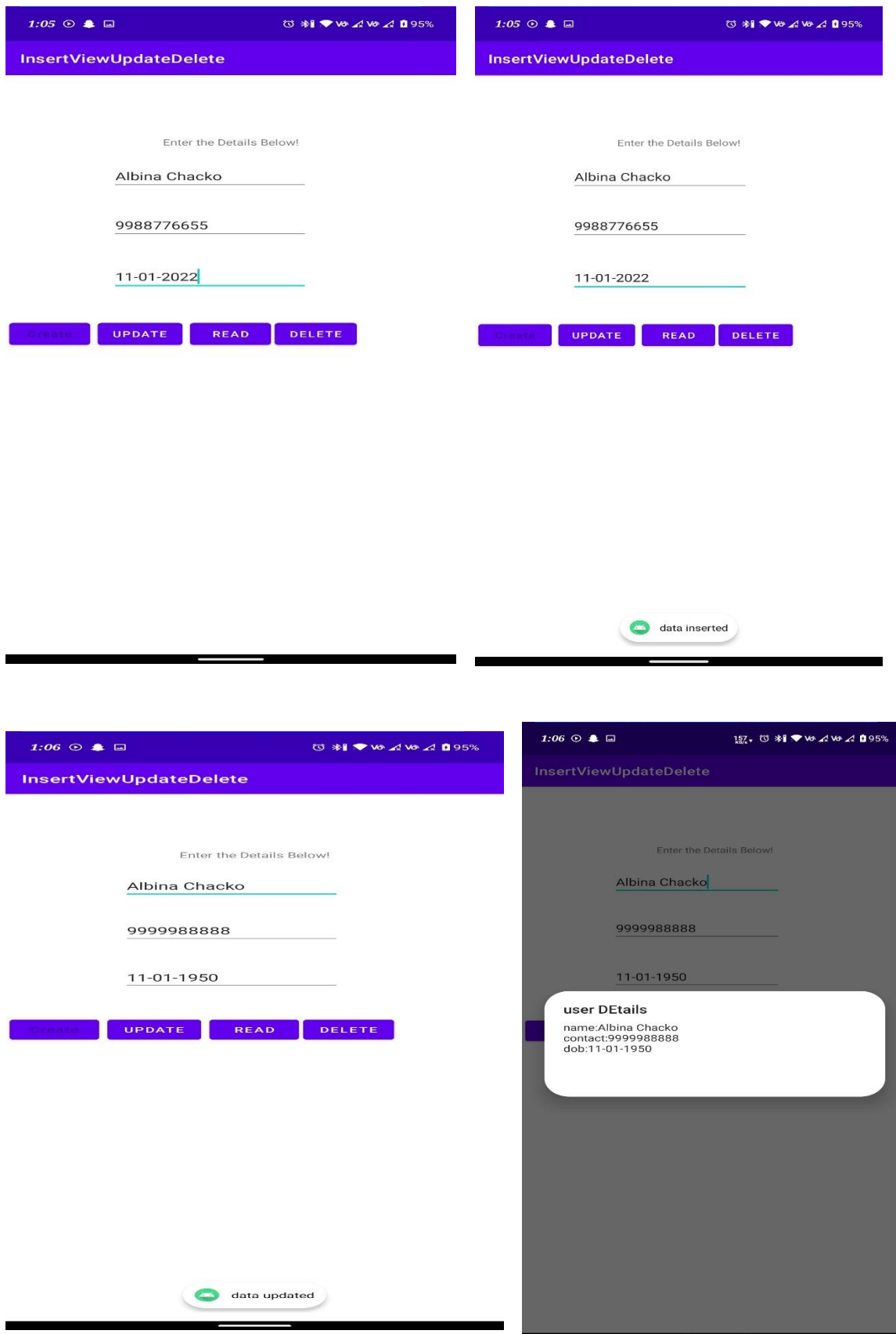
---

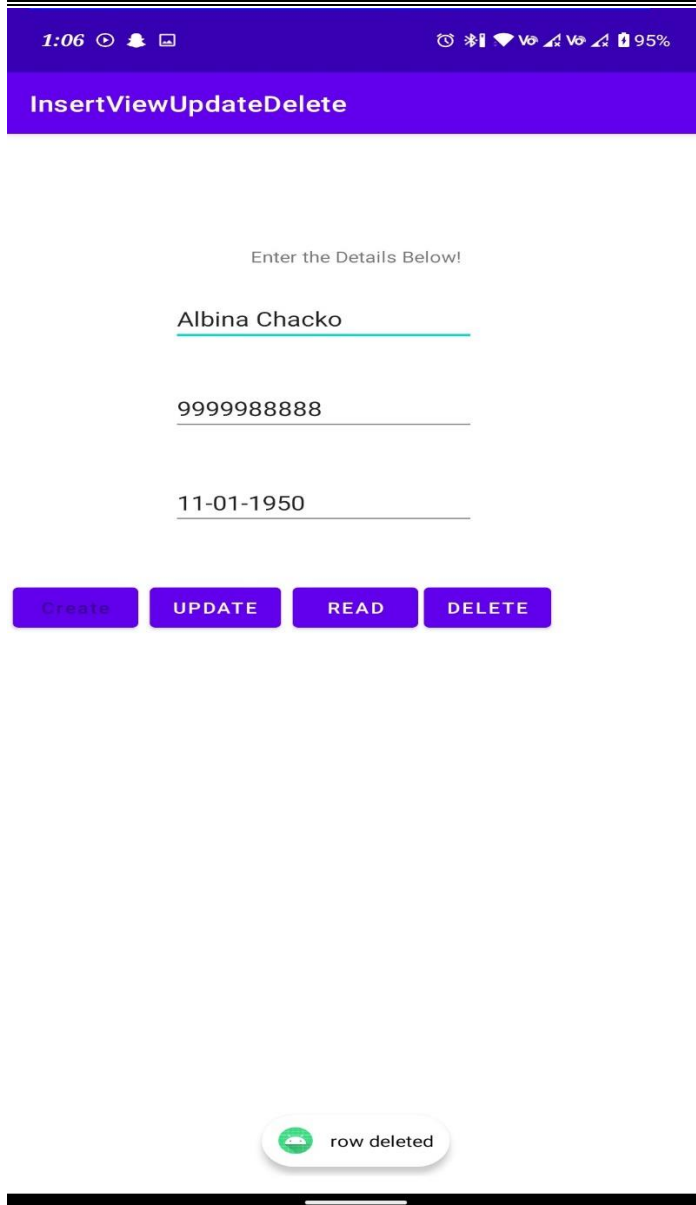
```
    } else {  
        return true;  
    }  
}  
  
public Boolean updateuserdatas (String name,String contact, String dob) {  
    SQLiteDatabase DB = this.getWritableDatabase();  
    ContentValues contentvalues = new ContentValues();  
    contentvalues.put("contact", contact);  
    contentvalues.put("dob", dob);  
    Cursor cursor = DB.rawQuery("select * from userdetails where name= ?",new  
String[]{name});  
    if(cursor.getCount()>0)  
    {  
        long result = DB.update("userdetails", contentvalues,"name=?", new String[]{name});  
        if (result==-1) {  
            return false;  
        } else {  
            return true;  
        }  
    }  
    else  
    {  
        return false;  
    }  
}  
  
public Boolean deleteuserdatas (String name) {  
    SQLiteDatabase DB = this.getWritableDatabase();  
    ContentValues contentvalues = new ContentValues();  
    Cursor cursor = DB.rawQuery("select * from userdetails where name= ?",new  
String[]{name});  
    if(cursor.getCount()>0)  
    {  

```

```
        long result = DB.delete("userdetails","name=?", new String[]{name});  
        if (result==1) {  
            return false;  
        } else {  
            return true;  
        }  
    }  
    else  
    {  
        return false;  
    }  
}  
  
public Cursor getdata()  
{  
    SQLiteDatabase DB = this.getWritableDatabase();  
    Cursor cursor = DB.rawQuery("select * from userdetails",null);  
    return cursor;  
}
```

## Output Screenshot





## Result

The program was executed and the result was successfully obtained. Thus CO5 was obtained.