# Develop an application that receives the following input in the Figure below and Update the details in the SQLite database and display the same.

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

<RelativeLayout xmlns:android="<http://schemas.android.com/apk/res/android>" xmlns:tools="<http://schemas.android.com/tools>" android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".MainActivity">

<EditText android:id="@+id/etName"

android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:hint="Enter Name" android:layout\_margin="16dp"/>

<EditText android:id="@+id/etLastName" android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:hint="Enter Last Name" android:layout\_below="@id/etName" android:layout\_margin="16dp"/>

<EditText android:id="@+id/etDOB"

android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:hint="Enter Date of Birth" android:layout\_below="@id/etLastName" android:layout\_margin="16dp"/>

<EditText android:id="@+id/etPhoneNumber" android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:hint="Enter Phone Number" android:layout\_below="@id/etDOB" android:layout\_margin="16dp"/>

<Button android:id="@+id/btnUpdate"

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="Update Details" android:layout\_below="@id/etPhoneNumber" android:layout\_centerHorizontal="true" android:layout\_marginTop="32dp"/>

</RelativeLayout>

# Mainactivity

package com.example.myapplication;

import android.content.ContentValues;

import android.database.sqlite.SQLiteDatabase; import android.os.Bundle;

import android.view.View; import android.widget.Button; import android.widget.EditText; import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

EditText etName, etLastName, etDOB, etPhoneNumber; Button btnUpdate;

DBHelper dbHelper; @Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState); setContentView(R.layout.activity\_main);

etName = findViewById(R.id.etName); etLastName = findViewById(R.id.etLastName); etDOB = findViewById(R.id.etDOB);

etPhoneNumber = findViewById(R.id.etPhoneNumber); btnUpdate = findViewById(R.id.btnUpdate);

dbHelper = new DBHelper(this); btnUpdate.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

String name = etName.getText().toString().trim();

String lastName = etLastName.getText().toString().trim(); String dob = etDOB.getText().toString().trim();

String phoneNumber = etPhoneNumber.getText().toString().trim();

if (name.isEmpty() || lastName.isEmpty() || dob.isEmpty() || phoneNumber.isEmpty()) { Toast.makeText(MainActivity.this, "Please fill in all fields", Toast.LENGTH\_SHORT).show();

} else {

updateDetails(name, lastName, dob, phoneNumber);

}

}

});

}

private void updateDetails(String name, String lastName, String dob, String phoneNumber) { SQLiteDatabase database = dbHelper.getWritableDatabase();

ContentValues values = new ContentValues(); values.put(DBHelper.COLUMN\_NAME, name); values.put(DBHelper.COLUMN\_LAST\_NAME, lastName); values.put(DBHelper.COLUMN\_DOB, dob); values.put(DBHelper.COLUMN\_PHONE\_NUMBER, phoneNumber);

long newRowId = database.insert(DBHelper.TABLE\_NAME, null, values); if (newRowId != -1) {

Toast.makeText(MainActivity.this, "Details updated successfully", Toast.LENGTH\_SHORT).show();

etName.setText(""); etLastName.setText(""); etDOB.setText(""); etPhoneNumber.setText("");

} else {

Toast.makeText(MainActivity.this, "details updated", Toast.LENGTH\_SHORT).show();

}

database.close();

}

}

# DBhelper

package com.example.myapplication; import android.content.Context;

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

public class DBHelper extends SQLiteOpenHelper {

private static final String DATABASE\_NAME = "my\_database"; private static final int DATABASE\_VERSION = 1;

// Table name and columns

public static final String TABLE\_NAME = "details"; public static final String COLUMN\_NAME = "name";

public static final String COLUMN\_LAST\_NAME = "last\_name"; public static final String COLUMN\_DOB = "dob";

public static final String COLUMN\_PHONE\_NUMBER = "phone\_number";

// SQL query to create the table

private static final String SQL\_CREATE\_TABLE = "CREATE TABLE " + TABLE\_NAME + " (" +

COLUMN\_NAME + " TEXT," + COLUMN\_LAST\_NAME + " TEXT," + COLUMN\_DOB + " TEXT," + COLUMN\_PHONE\_NUMBER + " TEXT)";

public DBHelper(Context context) {

super(context, DATABASE\_NAME, null, DATABASE\_VERSION);

}

@Override

public void onCreate(SQLiteDatabase db) { db.execSQL(SQL\_CREATE\_TABLE);

}

@Override

public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion) {

// Drop the table if it exists and create a new one db.execSQL("DROP TABLE IF EXISTS " + TABLE\_NAME);

onCreate(db);

}

}