

sqlite

activity\_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
    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/texttitle"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="20dp"
        android:text="please enter the details below"
        android:textSize="24dp"/>

    <EditText
        android:id="@+id/name"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Name"
        android:textSize="24dp"
        android:layout_below="@+id/texttitle"
        android:inputType="textPersonName" />

    <EditText
        android:id="@+id/contact"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Contact"
        android:textSize="24dp"
        android:layout_below="@+id/name"
        android:inputType="number" />

    <EditText
        android:id="@+id/dob"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Date of birth"
        android:textSize="24dp"
        android:layout_below="@+id/contact"
        android:inputType="number" />

    <Button
        android:id="@+id/buttonInsert"
        android:layout_width="match_parent"
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        android:layout_height="wrap_content"
        android:textSize="24dp"
        android:text="Insert new Data"
        android:layout_marginTop="30dp"
        android:layout_below="@+id/dob" />
        <Button
            android:id="@+id/buttonUpdate"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:textSize="24dp"
            android:text="Update Data"
            android:layout_below="@+id/buttonInsert" />
        <Button
            android:id="@+id/buttondelete"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:textSize="24dp"
            android:text="Delete existing data"
            android:layout_below="@+id/buttonUpdate" />
        <Button
            android:id="@+id/buttonView"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:textSize="24dp"
            android:text="View data"
            android:layout_below="@+id/buttondelete" />

</RelativeLayout>

```

## MainActivity.java

```

package com.example.db;

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;
}

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    Button insert, update, delete, view;
    DBHelper DB;

    @Override
    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        name=findViewById(R.id.name);
        contact=findViewById(R.id.contact);
        dob=findViewById(R.id.dob);
        insert=findViewById(R.id.buttonInsert);
        update=findViewById(R.id.buttonUpdate);
        delete=findViewById(R.id.buttondelete);
        view=findViewById(R.id.buttonView);
        DB=new DBHelper(this);

        insert.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.insertuserdata(nameTXT,contactTXT,dobTXT);
                if(checkinsertdata==true)
                    Toast.makeText(MainActivity.this, "New Entry Inserted",
                    Toast.LENGTH_SHORT).show();
                else
                    Toast.makeText(MainActivity.this, "unable to insert",
                    Toast.LENGTH_SHORT).show();
            }
        });

        update.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
                checkupdatedata=DB.updateuserdata(nameTXT,contactTXT,dobTXT);
                if(checkupdatedata==true)
                    Toast.makeText(MainActivity.this, "Entry updated",
                    Toast.LENGTH_SHORT).show();
                else
                    Toast.makeText(MainActivity.this, "Not updated",
                    Toast.LENGTH_SHORT).show();
            }
        });
    }
}

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

            Boolean checkdeletedata=DB.deletedata(nameTXT);
            if(checkdeletedata==true)
                Toast.makeText(MainActivity.this, "Entry deleted",
Toast.LENGTH_SHORT).show();
            else
                Toast.makeText(MainActivity.this, "Not deleted",
Toast.LENGTH_SHORT).show();
        }
    });
    view.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            Cursor res=DB.getdata();
            if(res.getCount()==0){
                Toast.makeText(MainActivity.this, "No entry exists",
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("Date of Birth:"+res.getString(2)+"\n");
            }
            AlertDialog.Builder builder=new
AlertDialog.Builder(MainActivity.this);
            builder.setCancelable(true);
            builder.setTitle("User Entries");
            builder.setMessage(buffer.toString());
            builder.show();

        }
    });

}
}

```

DBHelper.java

```

package com.example.db;

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

public class DBHelper extends SQLiteOpenHelper {
    public DBHelper(Context context) {
        super(context, "Userdetails", 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 insertuserdata(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;
        }else{
            return true;
        }
    }

    public Boolean updateuserdata(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;
            }
        }
    }

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    }
    }else{
        return false;
    }
}

public Boolean deletedata(String name){
    SQLiteDatabase DB=this.getWritableDatabase();
    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;
}
}

```

db

please enter the details below

anak

8286490

1238

User Entries

Name:anak  
Contact:8286490  
Date of Birth:1238

DELETE EXISTING DATA

VIEW DATA

2:26

db

please enter the details below

anak

8286490

1238

INSERT NEW DATA

UPDATE DATA

DELETE EXISTING DATA

VIEW DATA