Name :- Jadhav Kanchan Adhikrao

Roll No :- 8239 (TYCS-A) Subject :- Android Programming

## PRACTICAL - 12

**Aim :-** Create an android app to save user data in a database and use of different queries.

## Code:-

```
MainActivity.java:-
```

```
package com.example.dbma;
import androidx.appcompat.app.AppCompatActivity;
import android.app.AlertDialog;
import android.os.Bundle;
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 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.btnInsert);
        update = findViewById(R.id.btnUpdate);
        delete = findViewById(R.id.btnDelete);
        view = findViewById(R.id.btnView);
        DB = new DBHelper(this);
insert.setOnClickListener(new View.OnClickListener() {
             @Override
             public void onClick(View view) {
       String nameTXT = name.getText().toString();
           String contactTXT = contact.getText().toString();
```

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```
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, "New Entry Not
 Inserted", Toast.LENGTH_SHORT).show();
              } });
update.setOnClickListener(new View.OnClickListener() {
              @Override
             public void onClick(View view) {
        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, "New Entry Not
 Updated", Toast.LENGTH_SHORT).show();
              } });
delete.setOnClickListener(new View.OnClickListener() {
              @Override
             public void onClick(View view) {
        String nameTXT = name.getText().toString();
       Boolean checkudeletedata = DB.deletedata(nameTXT);
                  if(checkudeletedata==true)
               Toast.makeText(MainActivity.this, "Entry Deleted",
 Toast.LENGTH_SHORT).show();
                  else
               Toast.makeText(MainActivity.this, "Entry Not Deleted",
 Toast.LENGTH_SHORT).show();
              } });
    view.setOnClickListener(new View.OnClickListener() {
              @Override
              public void onClick(View view) {
                  Cursor res = DB.getdata();
                  if(res.getCount()==0){
```

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```
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\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.dbma;
              import android.content.ContentValues;
              import android.content.Context;
              import android.database.Cursor;
              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 i, int ii) {
                  DB.execSQL("drop Table if exists Userdetails");
                      public Boolean insertuserdata(String name, String contact, String
                      dob) {
                 SQLiteDatabase DB = this.getWritableDatabase();
```

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```
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;
              } 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 {
```

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```
return false;
                       }
                      public Cursor getdata ()
                SQLiteDatabase DB = this.getWritableDatabase();
                           Cursor cursor = DB.rawQuery("Select * from Userdetails",
                           null); return cursor;
Activity_main.xml:-
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
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="match_parent"
android:layout_height="wrap_content"
android:text="Please enter the details below"
android:textSize="24dp"
android:layout_marginTop="20dp"/>
<EditText
android:id="@+id/name"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:hint="Name"
android:textSize="24dp"
```

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```
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/btnInsert"
android:layout_width="match_parent"
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/btnUpdate"
android:layout_width="match_parent"
android:layout_height="wrap_content"
```

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android:textSize="24dp" android:text="Update Data" android:layout\_below="@id/btnInsert"/> <Button android:id="@+id/btnDelete" android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:textSize="24dp" android:text="Delete Existing Data" android:layout\_below="@id/btnUpdate"/> <Button android:id="@+id/btnView" android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:textSize="24dp" android:text="View Data" android:layout\_below="@id/btnDelete"/> </RelativeLayout>

## Output :-

